

1 BILL NO. S-86-03-

2 SPECIAL ORDINANCE NO. S-

3 AN ORDINANCE approving City Utilities
4 Purchase Order #A-52957, by the City
5 of Fort Wayne, Indiana, by and through
6 its Department of Purchasing, with
7 Anthony Motor Parts Corporation, for
8 the City Utilities Garage.

9 NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF
10 THE CITY OF FORT WAYNE, INDIANA:

11 SECTION 1. That City Utilities Purchase Order #A-52957,
12 between the City of Fort Wayne, by and through its City Utilities,
13 and the Department of Purchasing, with Anthony Motor Parts Cor-
14 poration, for the City Utilities Garage, respectfully for:

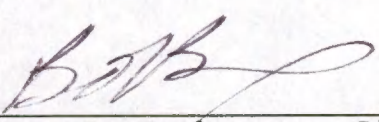
15 the purchase of batteries for City
16 vehicles through the City Utilities
17 Garage, per the specifications in
18 Reference #776;

19 involving a total cost of Fifteen Thousand and No/100 Dollars
20 (\$15,000.00), all as more particularly set forth in said Purchase
21 Order and Reference #776, which are on file in the Office of the
22 Department of Purchasing, and are by reference incorporated herein,
23 made a part hereof, and are hereby in all things ratified, con-
24 firmed and approved.

25 SECTION 2. That this Ordinance shall be in full force
26 and effect from and after its passage and any and all necessary
27 approval by the Mayor.

28 
Councilmember

29 APPROVED AS TO FORM
30 AND LEGALITY

31 
Bruce O. Boxberger, City Attorney

Read the first time in full and on motion by Burns,
seconded by Eisbart, and duly adopted, read the second time
by title and referred to the Committee City of Fort Wayne (and the Cit.
Plan Commission for recommendation) and Public Hearing to be held after
due legal notice, at the Council Chambers, City-County Building, Fort Wayne,
Indiana, on _____, the _____ day of _____,
19____, at _____ o'clock _____ M., E.

DATE: 3-25-86

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Burns,
seconded by Stier, and duly adopted, placed on its
passage. PASSED (LOST) by the following vote:

	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAINED</u>	<u>ABSENT</u>	<u>TO-WIT:</u>
<u>TOTAL VOTES</u>	<u>8</u>	_____	_____	<u>1</u>	_____
<u>BRADBURY</u>	<u>✓</u>	_____	_____	_____	_____
<u>BURNS</u>	<u>✓</u>	_____	_____	_____	_____
<u>EISBART</u>	<u>✓</u>	_____	_____	_____	_____
<u>GIAQUINTA</u>	_____	_____	_____	<u>✓</u>	_____
<u>HENRY</u>	<u>✓</u>	_____	_____	_____	_____
<u>REDD</u>	<u>✓</u>	_____	_____	_____	_____
<u>SCHMIDT</u>	<u>✓</u>	_____	_____	_____	_____
<u>STIER</u>	<u>✓</u>	_____	_____	_____	_____
<u>TALARICO</u>	<u>✓</u>	_____	_____	_____	_____

DATE: 4-8-86

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort
Wayne, Indiana, as ~~(ANNEXATION)~~ ~~(APPROPRIATION)~~ ~~(GENERAL)~~
~~(SPECIAL)~~ ~~(ZONING MAP)~~ ORDINANCE (RESOLUTION) NO. 5886
on the 8th day of April, 1986,

ATTEST:

Sandra E. Kennedy

(SEAL)

Samuel J. Talarico

SANDRA E. KENNEDY, CITY CLERK

PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana,
on the 9th day of April, 1986,
at the hour of 1:00 o'clock P. M., E.S.T.

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 10th day of April,
1986, at the hour of 10 o'clock A. M., E.S.T.

Win Moses, Jr.
WIN MOSES, JR., MAYOR

TAB SHEET BID REFERENCE #776

BATTERIES

OPENS: FEBRUARY 6, 1986 AT 10:00 A.M.
CITY UTILITIES GARAGE

ANTHONY MOTOR PARTS (MOTORCRAFT)	A. DISCOUNTS ABOVE PRICE SHEET VARIES FROM 21% TO 44.8% B. BATTERIES ARE FILLED C. NOTHING STATED AS TO WHAT TRADE IN PRICES ARE
PIQUA BATTERY (CRANKER)	A. NO DISCOUNT ABOVE PRICE SHEET STATED B. BATTERIES ARE FILLED C. DEDUCT 40¢ PER BATTERY TRADE IN VALUE
MCMAHON TIRE (RELIABLE)	A. NO DISCOUNT ABOVE PRICE SHEET STATED B. BATTERIES ARE FILLED C. TRADE IN PRICE INCLUDED IN PRICE STATED
ALLEN CO. MOTORS	DISQUALIFIED - PAPER WORK NOT IN ORDER
CROWN BATTERY	DISQUALIFIED - PAPER WORK NOT IN ORDER

2.
(Front Page)

CITY OF FORT WAYNE

DEPARTMENT OF PURCHASING
ONE MAIN STREET - ROOM 940
FORT WAYNE, INDIANA 46802

BID REFERENCE # 776

DATE JANUARY 20, 1986

DUE DATE FEBRUARY 6, 1986

Department receiving bid items CITY UTILITIES GARAGE
1705 S. LAFAYETTE STREET
FORT WAYNE, INDIANA 46803

Bid Bond Required NO YES X AMOUNT \$500.00
Performance Bond Required NO X YES AMOUNT
Affirmative Action ON FILE ATTACHED

Prompt payment discounts will be allowed as follows: %
if paid within days.

The City of Fort Wayne is exempt from Federal excise and Indiana State Sale Tax. The City's Indiana Sales Tax Exemption Certificate number is 356-001-255 0013, prices should not include these taxes.

The execution hereof by the bidder is acceptance of all terms and conditions herein and in that regard the bidder agrees to be bound by same and be bound to the amount of his/her bid for a period of sixty (60) days.

McMAHON TIRE
Name of Company
by [Signature] Agent
(signature)
Address 502 W Jefferson
City Fort Wayne Indiana
46802

SPECIFICATIONS FOR 1986 REQUIREMENTS FOR BATTERIES

BIDDER SHALL INCLUDE THE COMPLETE BATTERY SPECIFICATION DATA SHEET, WHICH INCLUDES BCI GROUP NO., VENDOR GROUP NO., WARRANTY, PLATES PER CELL, AMP RATING AND COLD CRANKING AMPS.

THE PRICE LISTING WOULD BE THAT LISTING SUCH AS "GSA PRICE LIST", OR THE EQUIVALENT. SHOULD THE VENDOR EXTEND ADDITIONAL PRICE DISCOUNTS ABOVE THOSE STATED ON THE PRICE LIST, THIS MUST ALSO BE INCLUDED.

BIDDER SHALL STATE IF THE BATTERIES ARE FILLED OR UNFILLED .

TRADE-INS ON BATTERIES MUST ALSO BE INCLUDED IN THE BID.

THIS BID SHALL BE VALID FROM THE DATE OF AWARD, THROUGH FEBRUARY, 1987.

BIDDER SHALL HAVE THE RIGHT TO INCREASE, OR DECREASE, THE CONTRACT UNIT PRICE IN AN AMOUNT EQUAL TO ANY "CHANGES" IN THE ABOVE REFERENCED PRICE LISTS DURING THE PERIOD OF THIS CONTRACT.

ANY INCREASE OR DECREASE IN COSTS RELATIVE TO THE PRICE LISTS SHALL BE SUBMITTED TO THE CITY OF FORT WAYNE PURCHASING DEPARTMENT UPON RECEIPT BY BIDDER, AND WILL BECOME EFFECTIVE UPON VERIFICATION OF THE DIRECTOR OF PURCHASES.

STATE DISCOUNT ABOVE THAT STATED ON PRICE LIST: *NET 0%*

OPTION RENEWAL

BY MUTUAL AGREEMENT BETWEEN THE CITY OF FORT WAYNE AND THE SUPPLIER, THE CONTRACT PERIOD MAY BE EXTENDED FOR AN ADDITIONAL PERIOD NOT TO EXCEED ONE (1) YEAR. HOWEVER, THE AGREEMENT TO EXTEND MUST BE COMPLETED IN WRITING NOT LESS THAN FIFTEEN (15) DAYS PRIOR TO EXPIRATION DATE. THE CONTRACT MAY BE EXTENDED ONLY AT THE SAME PRICE AND UNDER THE SAME CONDITIONS GOVERNING THE ORIGINAL CONTRACT.

CERTIFICATION OF BIDDER/VENDOR

The undersigned, on behalf of McMAHON TIRE
_____, does hereby make the following representations
to the City of Fort Wayne, Indiana.

WHEREAS, it is acknowledged that the Common Council
of the City of Fort Wayne, Indiana, has passed an ordinance con-
demning the apartheid policies of the country of South Africa;

WHEREAS, Council's ordinance requires that all persons,
firms or corporations submitting bids to the City, for goods and
services, certify, as part of the bid, that such entity does not
support the policies of apartheid in South Africa.

The undersigned states, on behalf of McMAHON TIRE
_____, that McMAHON TIRE
_____ does not support or endorse the policy of apartheid in South Africa.

IN WITNESS WHEREOF, this Certification has been signed
this 30 day of January, 1986.

McMAHON TIRE
(Name of Bidder/Vendor)

Frank McMahon President
(Name and Title of Person Signing)

BID, OFFER OR PROPOSAL

on

MATERIAL OR MATERIALS, EQUIPMENT, GOODS OR SUPPLIES

Fort Wayne Indiana *January 30*, 19*86*
To *City of Fort Wayne City UTILITIES, Department of Purchasing*
State name official position and municipality

Pursuant to notices given, the undersigned proposes to furnish the material or materials, equipment, goods or supplies as per said notices and specifications now on file in the office of *City UTILITIES*

Department of Purchasing *City of Fort Wayne*
state name official position and municipality

and as per copy thereof, hereto attached, or as described herein for the following amounts:

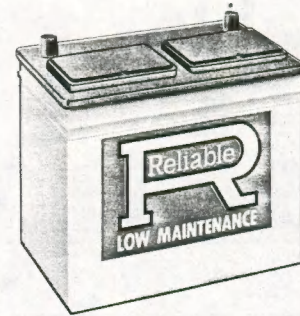
(State the class or item number or an exact description of the material or materials, equipment, goods or supplies to be furnished and amount of bid on each article.)

Class or Item	Quantity	Unit	Quality — Description	Unit Price	Amount
			<i>Batteries are Filled Trade-in price included in price of Battery Prices per attached List</i>		

Reliable

QUALITY SINCE 1918

BATTERIES



PRICE NET SPECIFICATIONS

1985-86

“650”						60 MONTH WARRANTY		
Reliable's Answer to Cold Weather Starting and Hot Engine Stalling. “650” Has More C.P.R. (Cranking Power Retention) With 50% Greater Reserve Capacity Than Most Other Brands.								
Code Number	Group Number and Type	Cold Cranking Rating	Reserve Capacity Rating	Type of Separators	Approx. Quarts Acid	Overall Dimensions		
						L	W	H
624	24 — 650	650	125	Envelope	4	10¼	6⅞	8⅞
625	24F — 650	650	125	Envelope	4	10¾	6⅞	8⅞
674	74 — 650	650	125	Envelope	4	10¼	7	8¾

XZ-60						New High Performance Design. Top-of-the-Line Construction with a 5 year Warranty on All of the Popular Battery Sizes. Plenty of Power for Every Application.				60 MONTH WARRANTY			
024	24 XZ-60	525	110	Envelope	4	10¼	6⅞	8⅞					
025	24F XZ-60	525	110	Envelope	4	10¾	6⅞	8⅞					
027	27 XZ-60	550	120	Envelope	5	12	6⅞	8⅞					
028	27F XZ-60	550	120	Envelope	5	12½	6⅞	8⅞					
055	55/56 XZ-60	450	80	PolyStel	3½	8⅝	6	8¾					
058	58 XZ-60	450	80	PolyStel	WET ONLY	9½	7¼	7					
062	62 XZ-60	450	80	PolyStel	WET ONLY	9	6½	8⅞					
070	70 XZ-60	450	80	Envelope	WET ONLY	8¼	7	7¾					
074	74 XZ-60	525	110	Envelope	4	10¼	7	8¾					

Powerizer 50					Exceeds Original Equipment Requirements. For Dependability And Long Life.		50 MONTH WARRANTY	
121	21 Powerizer	390	70	PolyStel	2½	8¼	6⅞	8¾
124	24 Powerizer	425	90	PolyStel	4	10¼	6⅞	8⅞
125	24F Powerizer	425	90	PolyStel	4	10¾	6⅞	8⅞
171	71 Powerizer	390	70	PolyStel	2½	8¼	7	8½
174	74 Powerizer	425	90	PolyStel	4	10¼	7	8¾

Hi-Energy 40				Meets New Car Specifications For Good Service Under Most Driving Conditions. Popularly Priced.			40 MONTH WARRANTY		
222	22F Hi-Energy	325	70	Stelco	3	9	6⅞	8¼	
224	24 Hi-Energy	350	75	Stelco	4	10¼	6⅞	8⅞	
225	24F Hi-Energy	350	75	Stelco	4	10¾	6⅞	8⅞	
255	55 Hi-Energy	380	70	Stelco	3	8⅝	6	8¾	
272	72 Hi-Energy	325	70	Stelco	3	9	7	8¼	
274	74 Hi-Energy	350	75	Stelco	4	10¼	7	8¾	

Electron 30				For Minimum Starting And Operating Requirements. When Economy Is An Important Consideration.				30 MONTH WARRANTY	
324	24 Electron	300	70	Stelco	4½	10¼	6⅞	8⅞	
325	24F Electron	300	70	Stelco	4½	10¾	6⅞	8⅞	

Laboratory and Road-Tested Reliable Low Maintenance Batteries Use Less Water

Reliable

QUALITY SINCE 1918

BATTERIES

- ★ IMPORT CAR BATTERIES
- ★ 6 & 12 VOLT CAR AND SPECIAL APPLICATION BATTERIES
- ★ 8 & 12 VOLT MARINE BATTERIES
- ★ GOLF CART BATTERIES

Specialty Import Car Batteries

Code Number	Group Number and Type	Volts	Months Limited Warranty	Cold Cranking Rating	Reserve Capacity Rating	Type of Separators	Approx. Quarts Acid	Overall Dimensions		
								L	W	H
319	19L Import Line	6	30	450	130	Stelco	2½	8½	6⅞	7⅞
341	41 Import Line	12	30	525	100	PolyStel	WET ONLY	11⅞	6⅞	6⅞
342	42 Import Line	12	30	325	75	Stelco	2½	9⅞	6⅞	6⅞
343	43 Import Line	12	30	425	120	Stelco	4	13	6⅞	8
344	44 Import Line	12	30	500	135	Stelco	5	16½	6⅞	8
345	45 Import Line	12	30	400	75	PolyStel	2½	9½	5½	8¾
349	49 Import Line	12	30	600	130	PolyStel	WET ONLY	15	6⅞	7⅞

PRICE
AVAILABLE
ON
REQUEST

Older Model Cars and ‡Special Application Batteries

301	1 Value Line	6	24	485	140	Stelco	3	9	6⅞	8¾
302	2 Value Line	6	24	550	160	Stelco	3½	10¼	6⅞	8¾
304	2E Value Line	6	24	550	160	Stelco	3½	19⅞	4	8⅞
323	22NF Value Line	12	24	260	60	Stelco	2½	9½	5½	8⅞
329	29NF Value Line	12	24	350	90	Stelco	3½	13	5½	8⅞
330	3EE Value Line	12	24	360	100	Stelco	4	19⅞	4⅞	8⅞
353	53 Value Line	12	24	240	60	Stelco	2½	13	4¾	8¼
360	60 Value Line	12	24	340	100	Stelco	4	13	6¼	8⅞

‡When used in Fork Lift and Motive Power Applications, reduce Warranty to 12 Months.

8 Volt Heavy Duty Marine Batteries

Large Sizes 8V-25 thru 8V-35 made with Rope Handles

401	1-8V	24	20 Hr. Rate 85	Stelco	3	9	6⅞	8¾
402	2-8V	24	20 Hr. Rate 100	Stelco	3½	10¼	6⅞	8¾
406	8V-25	24	20 Hr. Rate 200	Permalife	WET ONLY	19	7¼	10¼
408	8V-27	24	20 Hr. Rate 220	Permalife	WET ONLY	21½	7½	10¼
412	8V-31	24	20 Hr. Rate 260	Permalife	WET ONLY	27½	7½	10¼
414	8V-35	24	20 Hr. Rate 285	Permalife	WET ONLY	26⅞	8½	10¼

12 Volt Marine Batteries

Made with Rope Handles and Wing-nut Terminals

040	24 Sportsman (Deep Cycle)	36	475	110	Permalife	4	11	6⅞	8⅞
240	24 Mariner	36	425	90	Stelco	4	11	6⅞	8⅞
270	27 Trollmaster (Deep Cycle)	36	505	120	Permalife	4	12¾	6⅞	8⅞

Golf Cart Batteries

Deep Cycle Service—Not Low Maintenance—Requires Regular Servicing

384	Golfer 105	12	105 Min. @ 75 Amp Dis.	Permalife	3	10¼	7⅞	10¾
382	Golfer 85	12	85 Min. @ 75 Amp Dis.	Permalife	3½	10¼	7⅞	10¾

▷ All batteries used in deep cycling service require maintenance after each usage.

▷ Specifications and materials are subject to change without notice.

▷ Code numbers shown are for wet batteries. Add the letter "D" for dry batteries. Ex.: 224D.

SEPARATORS

- ▷ Permalife — Double Insulation Glass & Rubber
- ▷ Envelope — Microporous Polyethylene
- ▷ PolyStel — PVC (Polyvinyl Chloride)
- ▷ Stelco — Phenol Resin Coated Cellulose

MONTHS LIMITED WARRANTY:

Automotive types shown are on a pro-rata adjustment basis when used in normal service in cars, or trucks through one ton. For all other use, ½ warranty, or double pro-rata adjustment cost.

"Heavy Duty" and all other types shown are on a pro-rata adjustment basis when used in cars, trucks, buses, farm equipment, and marine use.

Off-the-highway, and other service applications, ½ warranty or double pro-rata adjustment cost.

See Consumer Price Sheet for complete warranty details.



Reliable BATTERIES

For Heavy Duty Service In:

Autos ★ Taxis ★ Trucks ★ Farm Tractors ★ Buses ★ Police Cars
Off-the-Highway Equipment ★ Fork Lifts ★ Stationary Power
Diesel Starting ★ Marine ★ Utility Engines ★ Industrial

PRICE

12 Volt Heavy Duty Commercial Service Batteries

40.65
43.33
43.33
73.19
89.61

Code Number	Group Number and Type	Months Limited Warranty	Plates Per Battery	Reference 20 Hour Rate	Cold Cranking Rating	Reserve Capacity Rating	Type of Separators	Approx. Quarts Acid	Overall Dimensions		
									L	W	H
452	30H	24	90	100	550	150	Permalife	4½	13½	6⅞	9¼
455	31-S (Stud)	24	102	105	625	160	Envelope	WET ONLY	13	6⅞	9½
456	31-P (Post)	24	102	105	625	160	Envelope	WET ONLY	13	6⅞	9½
460	4D-A	24	138	160	800	300	Permalife	8	20¾	8¾	9¾
468	8D-A	24	174	210	1000	440	Permalife	10	20¾	10⅞	9¾

4D-A and 8D-A made with Rope Handles.

12 Volt Automotive Heavy Duty Batteries

424	24 T&T	24	72	81	525	110	Envelope	3½	10¼	6⅞	8⅞
427	27 T&T	24	84	90	550	120	Envelope	4	12	6⅞	8⅞
428	27F T&T	24	84	90	550	120	Envelope	4	12½	6⅞	8⅞
474	74 T&T	24	72	81	525	110	Envelope	3½	10¼	7	8¾

12 Volt Farm Tractor and Utility Batteries

39.30
48.77
67.07
20.84
21.09

480	3ET	24	78	80	460	130	PolyStel	4	19¾	4¾	9¾
486	17TF	24	102	80	500	155	PolyStel	5½	17	7	8
488	4DLT	24	150	130	700	250	PolyStel	7½	20	8¼	8
496	U-1L	12	54	32	225	30	Stelco	1½	7¾	5⅞	7¾
498	U-1R	12	54	32	225	30	Stelco	1½	7¾	5⅞	7¾

U-1L has Positive Post Front Left. U-1R Front Right.

6 Volt Heavy Duty Commercial Service Batteries

25.60
27.86
30.27
34.75
31.70
33.22
46.83
40.70
50.84

350	1 T&T	24	45	115	500	165	Permalife	3	9	6⅞	8¾
352	2 T&T	24	51	125	550	190	Permalife	3½	10¼	6⅞	8¾
354	3 T&T	24	57	140	600	225	PolyStel	4	11¾	7	9
355	4T-175	24	69	175	800	310	Permalife	4½	12⅝	7	9
357	4T-163	24	63	163	700	275	PolyStel	5	13	7	9⅞
362	3EH	24	69	172	750	280	Permalife	4	19¾	4¾	9⅞
363	4EH	24	87	204	900	360	Permalife	5½	19¾	5¼	9⅞
364	5D	24	81	185	800	375	PolyStel	4½	13¾	7⅞	9¼
366	7D	24	87	210	950	430	PolyStel	5	16¼	7⅞	9¼

Types to be discontinued when supply of parts is depleted

022	22F XZ-60	60*	400	90	PolyStel	2½	9	6⅞	8¼
227	27 Hi-Energy	40*	425	100	Stelco	5½	12	6⅞	8⅞
228	27F Hi-Energy	40*	425	100	Stelco	5½	12½	6⅞	8⅞
156	56 Powerizer	50*	450	90	PolyStel	3½	10	6	8¾

* Indicates Months of Limited Warranty

Reliable Engineers stress that batteries which are:

"MAINTENANCE FREE" — Maintenance Impossible

"LOW MAINTENANCE" — Maintenance is Possible

Reliable LOW MAINTENANCE batteries use special lead alloys which result in less battery gassing and water loss. This reduces the need for frequent checks of the battery's acid level, giving the motorist greater convenience and dependability.

EASY ACCESS TO BATTERY CELLS

Reliable's technical staff knows that no matter how a battery is built, it will gas. Charging system problems and heat can cause a battery to lose too much liquid, causing early battery failure. Unlike permanently sealed "maintenance free" batteries, Reliable has elected to keep the door open by allowing water to be added to its Low Maintenance line by using removable vent caps that permit easy access to the cells for testing and adding water. With Reliable there is no need to buy a new battery when the charging system malfunctions. Add a little water and there is still service left in the Reliable Low Maintenance battery ... because it is serviceable.

RELIABLE POW R PLUS PLATES

Scientifically designed for the ultimate in the delivery of instant power. New radial grid with "small window frames" mean more contact area with the active material. This increases power output for faster starting. High density lead oxide provides more resistance to deep cycling, and longer battery life.

RELIABLE UNI-WELD CONSTRUCTION

Thru-the-wall design assures maximum energy delivery. A shorter path of power efficiently produces more cold cranking amps. This means better performance when the weather is cold or when the engine is hot and hard to start. The latest battery construction and design for 12 volt automotive types includes heat welded top covers, low profile, flame retardant vent caps and high impact polypropylene containers.

QUALITY CONTROL

Quality always has been the Standard at Reliable since the first battery was built in 1918. This is still true today when proper quality assurance must be the top priority. Quality is not just the responsibility of Reliable's management. Now, training for special Quality Assurance procedures is provided to each production worker so that quality is tops from the start. This, plus rigid testing by Q.C. personnel assures that all batteries sold are truly Reliable.

Easy to Maintain

More Instant Starting Power

Tougher Construction

RELIABLE, where
Quality Assurance is Number 1

Reliable

QUALITY SINCE 1918

RELIABLE BATTERY SEPARATORS ...

The right separator for every job.

Different batteries are subjected to different types of service, so Reliable's technical staff specifies the proper separator for each service requirement.

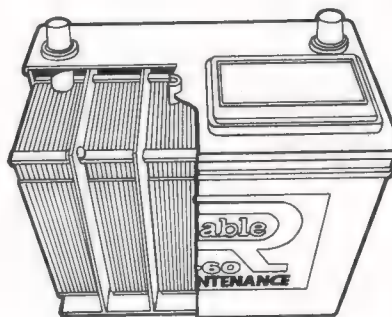
1. Envelope — super thin polyethylene material is heat welded to enclose the positive plate. Helps prevent shorting of plates while allowing for high cranking performance.
2. PolyStel — a new polyvinyl chloride separator made by Reliable that allows for high cranking performance. PVC ribbed separators have good vibration resistance for hard use applications.
3. Stelco — made by Reliable and proven in millions of batteries for original equipment performance. Made from phenol coated cellulose with PVC reinforced ribs.
4. Permalife — made by Reliable of heavy duty spun glass fiber and rubber for use where deep cycling and long service life are of primary importance. Holds a full charge longer so its always "ready to go".

POWRDRY DRY CHARGE BATTERIES

POWRDRY DRY CHARGE batteries can be stored for months and still remain factory fresh and ready-to-go when acid is added. No boost charge or acid soak is required before installing. POWRDRY requires less acid, less costly electricity, and less time to service which results in a savings for the battery service man. Unlike conventional dry batteries, POWRDRY batteries can be tested at the factory and prior to installation to assure reliability. Most Reliable Batteries are available either POWRDRY or wet charged.

RELIABLE CONCEPT ENGINEERING

"Design a battery to do the job." That is the challenge to the Reliable Engineering Staff. A combination of improvements in plates, connectors, separators, and plastic components means more energy efficiency and durability. The proper balance of chemical, metallurgical, electrical, and mechanical features offer Reliable users a better value. Transportation systems of the '80's demand constant improvement in battery construction, and Reliable delivers.



BATTERY RATINGS—WHAT THEY MEAN:

RESERVE CAPACITY RATING — A battery must provide emergency power for ignition, lights, etc., in the event of failure in the vehicle's battery charging system. The Reserve Capacity rating is defined as the number of minutes a battery can be discharged at 25 amperes and still maintain a voltage of 1.75 volts per cell or higher.

COLD CRANKING RATING — Relates directly to the battery's primary job—to start the engine. The Cold Cranking rating is the discharge load in amperes that a fully charged battery at 0°C can deliver for 30 seconds and still maintain a voltage of 1.2 volts per cell or higher.

20 HOUR RATING — A measure of the electrical value of a battery for reference purposes only. This test indicates the low rate discharge.

RELIABLE BATTERY COMPANY

FACTORY and GENERAL OFFICES:

NELSON ROAD at RELIABLE DRIVE, SAN ANTONIO, TX 78227
512/623-3131

SAN ANTONIO, TX 78201
1125 W. Hildebrand
512/737-2288

HOUSTON, TX 77002
1900 Caroline
713/659-1172

DALLAS, TX 75235
2600 W. Mockingbird
214/352-7521

SOLD BY:

UNIWELD... Battery Construction



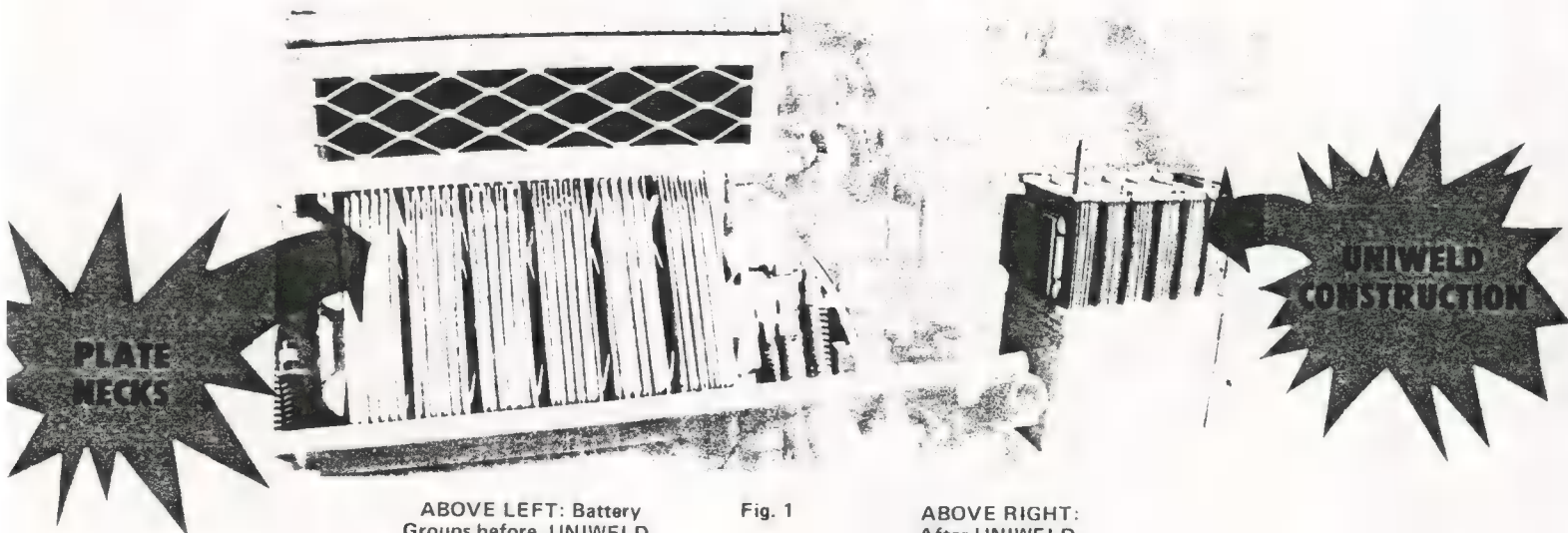
EXCLUSIVELY FROM RELIABLE BATTERY CO.

UNIWELD is a precise manufacturing process wherein the plates of the Battery Groups are inverted and lowered into a mold cavity filled with molten lead. This operation automatically forms lead connections from plate to plate, cell to cell and includes both terminal posts.

This one step "Circuit Cast On" provides a more uniform circuitry than the hand burning technique.

With UNIWELD, the contained cell partitions are notched so the cell connectors form virtually a straight line, thereby shortening the electric current path to reduce internal electrical resistance.

After UNIWELD, the connected cells are lowered into the container and a polypropylene injection machine provides a seal around the cell connector insuring a leak proof restoration of the partition wall.



ABOVE LEFT: Battery Groups before UNIWELD.

Fig. 1

ABOVE RIGHT: After UNIWELD.

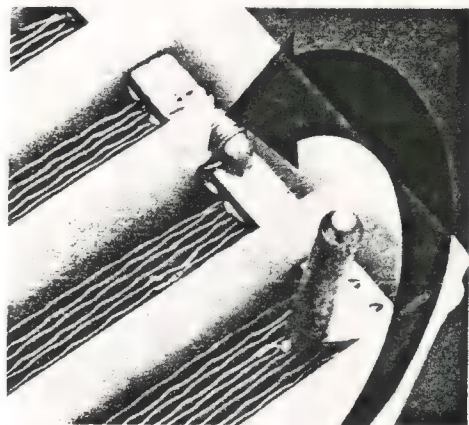


Fig. 2
Cell connector through notched partition.

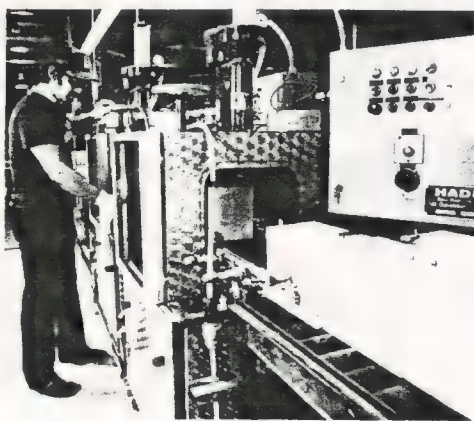


Fig. 3
Batteries automatically feeding to polypropylene injection machine.



Fig. 4
Cell connector totally sealed as container was molded around the components.

UNIWELD — available exclusively in the U.S.A., in Reliable Batteries

Reliable Battery Company

SINCE 1918

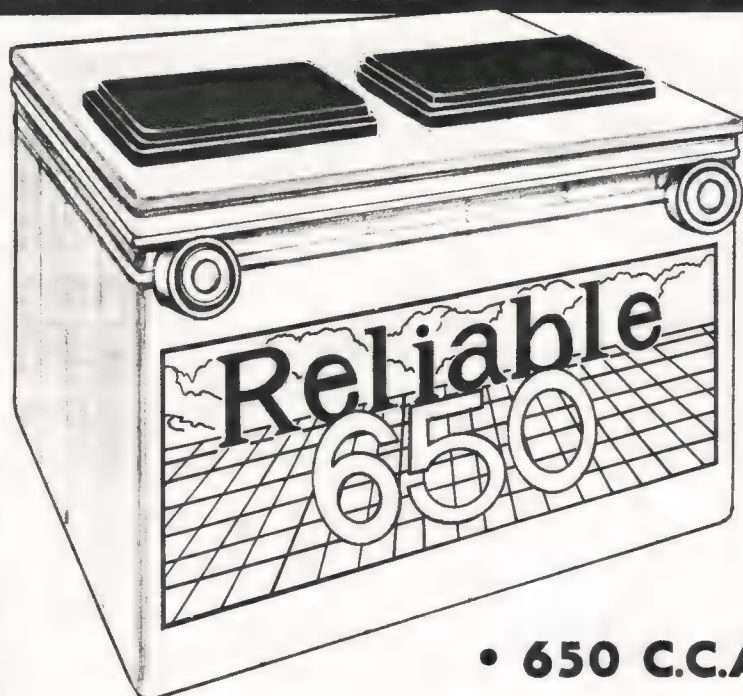
SAN ANTONIO, TEXAS 78205
115 San Pedro Ave.
Phone: (512) 224-9201

HOUSTON, TEXAS 77001
1900 Caroline
Phone: (713) 659-1172

DALLAS, TEXAS 75235
2600 W. Mockingbird Lane
Phone: (214) 352-7521

NEW ORLEANS, LA. 70179
740 S. Pierce Street
Phone: (504) 488-6692

BATTERY OF THE FUTURE!



Reliable 650

- 650 C.C.A. FOR STARTING POWER
- 125 RESERVE FOR STAYING POWER
- MORE C.P.R. — CRANKING POWER RETENTION

Reliable once again takes the SENSIBLE APPROACH to the motorist's needs.

Low Maintenance Batteries with more TRUE POWER. The Reliable "650" has a greater liquid reserve than the new breed of mini-batteries being advertised in the marketplace. The "650" is not acid-starved and has the proper plate-to-acid-ratio. Longer battery life and better Deep Cycling Performance is guaranteed.

Reliable "650's" have 50% higher Reserve Capacity than most other brands 125 minutes compared to 70 or 80 minutes on many of the mini-batteries.

Three popular automotive sizes Group 24, 24F, and 74 the Dependables make up the Reliable "650" line and will fit 4 out of 5 automotive applications! Available wet or dry charged.

C.P.R. = Cranking Power Retention

Reliable's answer to cold weather starting and hot engine stalling. C.P.R. is a combination of cold cranking amperes and reserve capacity.

A good battery must have plenty of starting power and sufficient reserve energy when a vehicle will not start on the first or second spin. The problem with mini-batteries rated at 650 CCA is the lack of reserve energy.

The advantage of the Reliable "650" is its capability to withstand 40% MORE SUCCESSIVE DISCHARGES at zero temperatures than a typical mini-battery. Reliable has more C.P.R.'s to insure more cold cranking starts!

- 60 Month Warranty
- 650 Cold Cranking Amperes at 0°
- 125 Minutes Reserve Capacity
- See Reliable sheets for Prices, Dimensions, and Warranty Provisions.
- 90 Plates
- Envelope Separators
- Group Sizes 24, 24F and 74

RELIABLE BATTERY COMPANY

San Antonio, Tx 78201
1125 W. Hildebrand
512/737-2288

Houston, Tx 77002
1900 Caroline
713/659-1172

Dallas, Tx 75235
2600 W. Mockingbird Lane
214/352-7521

2.
(Front Page)

CITY OF FORT WAYNE

DEPARTMENT OF PURCHASING
ONE MAIN STREET - ROOM 940
FORT WAYNE, INDIANA 46802

BID REFERENCE # 776

DATE JANUARY 20, 1986

DUE DATE FEBRUARY 6, 1986

Department receiving bid items CITY UTILITIES GARAGE

1705 S. LAFAYETTE STREET

FORT WAYNE, INDIANA 46803

Bid Bond Required NO YES X AMOUNT \$500.00

Performance Bond Required NO X YES AMOUNT

Affirmative Action ON FILE X ATTACHED

Prompt payment discounts will be allowed as follows: NET %
if paid within 30 days.

The City of Fort Wayne is exempt from Federal excise and Indiana State Sale Tax. The City's Indiana Sales Tax Exemption Certificate number is 356-001-255 0013, prices should not include these taxes.

The execution hereof by the bidder is acceptance of all terms and conditions herein and in that regard the bidder agrees to be bound by same and be bound to the amount of his/her bid for a period of sixty (60) days.

ANTHONY MOTOR PARTS CORP.
Name of Company

by Richard E. Beck Agent
(signature)

Address 101 S. CLINTON ST.

City FORT WAYNE, IN 46802

THE FOLLOWING IS THE UNDERSIGNED'S COMMITMENT OF THE MBE/WBE GOALS OF THE CITY FOR WORK DONE PURSUANT TO THIS CONTRACT:

- (a) The undersigned firm certifies that it is an (MBE/~~WBE~~) Contractor (cross out inapplicable provision).

For MBE specify percentage of minority ownership 0 %.

For WBE specify percentage of women ownership _____ %.

- (b) The undersigned certifies that they are a joint venture in which the following (MBE/WBE) firm _____ (cross out inapplicable provision) is a joint venture partner.

The MBE/WBE (cross out inapplicable provision) firm shall have _____ % participation (employees) _____ % participation (costs) in this project.

Specify the percentage of minority/women ownership in the MBE/WBE firm _____ %. (cross out inapplicable provision)

- (c) The undersigned commits 0 % of the total bid price as a subcontract to minority business enterprise participation. The MBE firms which are proposed as subcontractors are the following:

<u>Name of Firm</u>	<u>Address</u>	<u>Type of Work</u>
---------------------	----------------	---------------------

1.

2.

3.

- (d) The undersigned commits 0 % of the total bid price as a subcontract to women business enterprise participation. The WBE firms which are proposed as subcontractors are the following:

<u>Name of Firm</u>	<u>Address</u>	<u>Type of Work</u>
---------------------	----------------	---------------------

1.

2.

3.

(e) Complete (1) and (2) below if participation goals of 15% MBE and 12% WBE have not been met:

1. My Company cannot meet the participation goals for the following reasons: ARTICLES PURCHASED FROM FORMER COMPANY
2. We have taken the following steps in an attempt to comply with these participation goals:

Contractor

Contractor

By _____

By _____

Its _____

Its _____

☐ 12. Performance Bond. The successful bidder, at the time of signing the contract will be required, at his own expense, to furnish a bond guaranteeing faithful execution of the contract, in full amount of the contract price, executed by the bidder and a surety company admitted to do business in Indiana, on the bond form provided or approved by the City. The Performance Bond shall contain the following clause: "The said Surety, for value received, hereby stipulates and agrees, that no change, extension of the time, alteration or addition to the terms of the contract or to the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any change, extension of time, alteration or addition to the terms of the contract, or to the work or specification.

☒ 13. Councilmanic Approval and Ratification of Contract. This agreement, although executed on behalf of the City by the Mayor and the Purchasing Agent shall not be binding upon the City unless and until the contract has been ratified and approved by the Common Council of the City of Fort Wayne, Indiana. If the Common Council fails to approve the contract within ninety days after the date of bid opening, then the contractor shall not be bound to the contract unless he/she/it elects to be so bound.

CERTIFICATION OF BIDDER/VENDOR

The undersigned, on behalf of ANTHONY MOTOR PARTS CORPORATION, does hereby make the following representations to the City of Fort Wayne, Indiana.

WHEREAS, it is acknowledged that the Common Council of the City of Fort Wayne, Indiana, has passed an ordinance condemning the apartheid policies of the country of South Africa;

WHEREAS, Council's ordinance requires that all persons, firms or corporations submitting bids to the City, for goods and services, certify, as part of the bid, that such entity does not support the policies of apartheid in South Africa.

The undersigned states, on behalf of ANTHONY MOTOR PARTS CORPORATION, that _____ does not support or endorse the policy of apartheid in South Africa.

IN WITNESS WHEREOF, this Certification has been signed this 4TH day of FEBRUARY, 1986.

ANTHONY MOTOR PARTS CORPORATION
(Name of Bidder/Vendor)

Richard E. Beck
(Name and Title of Person Signing)

BID, OFFER OR PROPOSAL

on

MATERIAL OR MATERIALS, EQUIPMENT, GOODS OR SUPPLIES

Fort Wayne Indiana Feb 5th, 19 86

To
State name official position and municipality

Pursuant to notices given, the undersigned proposes to furnish the material or materials, equipment, goods or supplies as per said notices and specifications now on file in the office of Director of Purchases
City of Fort Wayne
state name official position and municipality

and as per copy thereof, hereto attached, or as described herein for the following amounts:

(State the class or item number or an exact description of the material or materials, equipment, goods or supplies to be furnished and amount of bid on each article.)

Class or Item	Quantity	Unit	Quality — Description	Unit Price	Amount
BX-74			Motorcraft Battery	30.20	
BX-27			Motorcraft Battery	40.82	
BX-27F			Motorcraft Battery	40.82	
BX24			Motorcraft Battery	29.51	
BX24F			Motorcraft Battery	29.51	
BH29NF			Motorcraft Battery	31.49	
BH8D			Motorcraft Battery	84.95	
BH4			Motorcraft Battery	33.81	
*			All Batteries are filled. Discount above the enclosed price sheet varies from 21% to 44.8%.		

Motorcraft QUALITY PARTS

FOR ALL MAKES OF CARS AND TRUCKS

MOTORCRAFT INTERCHANGE

Previous Line to Tested Tough Line

REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.
MFR-21	BR-21	G-24F	BX-24F	R-43	None
MF-22FC	BX-22F	G-24M	BH-24M	R-54	BR-56
MFR-22FC	BR-22F	G-27C	BX-27	R-55	BR-56
MF-24C	BX-24	G-27F	BX-27F	R-56	BR-56
MFR-24C	BR-24	G-72	BX-71	R-60	None
MF-24F	BX-24F	G-74	BX-74	R-64	BX-64A
MF-24FA	BX-24F	GN-1	BH-1	R-72	BR-71
MFR-24F	BR-24F	GN-2	BH-2	R-74	BR-74
MF-27C	BX-27	GN-2E	None	R-77	BX-74
MF-27CA	BX-27	GN-22FC	BR-22F	V-4	BH-4
MFR-27C	BX-27	GN-24C	BA-24	1HG	BH-1
MF-27F	BX-27F	GN-24F	BA-24F	1LS	None
MFR-27F	BX-27F	GN-74	BA-74	1MS	BH-1
MF-31	BH-29H	LU-7	BH-U1	2E	None
MF-31A	BH-29H	LU-9	BH-U1	2GC	BH-GC2
MF-31AS	BH-31A	R-1	BH-1	2GCA	BH-GC2
MF-31S	BH-31A	R-2	BH-2	2HG	BH-2
MF-57	BX-58B	R-3	None	2HN	None
MF-58	BX-58B	R-4	BH-4	2LG	None
MF-58A	BX-58B	R-22FC	BR-22F	3EE	BH-3EE
MF-61	BR-61	R-22FCA	BX-22F	3EHA-172	BH-3EH
MF-62	BR-62	R-23	BR-24F	3HE	BH-3ET
MF-63	BX-63	R-24C	BA-24	4DA	BH-4D
MF-64	BX-64A	R-24CA	BR-24	4DLT	BH-4DLT
MF-64A	BX-64A	R-24CB	BR-24	4EH	None
MF-71	BR-71	R-24F	BR-24F	5DA	None
MFR-71	BR-71	R-24FA	BX-24F	7DA	BH-7D
MFR-73	BX-71	R-27C	BX-27	8DA	BH-8D
MF-74	BX-74	R-27CA	BX-27	8DAT	None
MFR-74	BR-74	R-27F	BX-27F	8DB	BH-8D
MF-27CA	BH-27A	R-27FA	BX-27F	10HN	BH-22NF
E-42	BR-42	R-29HR	BX-27F	16TF	None
E-42F	BR-42F	R-29NF	BH-29NF	17TF	None
G-22FC	BX-22F	R-30H-95	BH-29H		
G-24C	BX-24	R-32N	None		

Motorcraft QUALITY
PARTS
FOR ALL MAKES OF CARS AND TRUCKS

ANTHONY MOTOR PARTS CORP.
101 S. CLINTON
FORT WAYNE, INDIANA 46802
PHONE 423-1371

TESTED TOUGH BATTERY SUGGESTED FLEET PRICE LIST

MOTORCRAFT PASSENGER CAR AND LIGHT TRUCK BATTERIES

BATTERY PART NO.	MONTHS OF ADJ. SERVICE	AVAIL- ABILITY WET/DRY	COLD CRANKING AMPS (@ 0°)	SUGGESTED PRICES		
				USER EXCH.	RETAILER	FLEET
BA-24	20	W/D	340	45.90	41.27	36.73
BA-24F	20	W/D	340	45.90	41.27	36.73
BA-74	20	W/D	340	45.90	41.27	36.73
BR-21	25	W/D	340	57.75	51.98	46.26
BR-22F	25	W/D	340	46.70	42.03	37.41
BR-24	25	W/D	455	52.65	47.38	42.17
BR-24F	25	W/D	455	52.65	47.38	42.17
BR-42	25	W/D	385	62.85	56.56	50.34
BR-42F	25	W/D	385	73.05	65.73	58.50
BR-45	25	W/D	450	62.85	56.56	50.34
BR-56	25	W/D	505	64.55	58.10	51.71
BR-58	25	W	410	56.06	50.45	44.90
BR-61	25	W	310	69.90	62.92	56.00
BR-62	25	W	380	56.06	50.45	44.90
BR-71	25	W/D	400	52.65	47.38	42.17
BR-74	25	W/D	455	52.65	47.38	42.17
BX-22F	30	W/D	400	54.35	48.91	43.53
BX-24	30	W/D	525	62.00	55.80	49.66
BX-24F	30	W/D	525	62.00	55.80	49.66
BX-24FA*	30	W	500	79.10	71.18	63.35
BX-27	30	W/D	540	63.70	57.33	51.02
BX-27F	30	W/D	540	63.70	57.33	51.02
BX-33	30	W	1050	162.21	145.99	129.93
BX-41	30	W	525	84.90	76.44	68.03
BX-58*	30	W	410	74.73	67.26	59.86
BX-58A*	30	W	450	82.39	74.15	65.99
BX-58B	30	W	475	74.73	67.26	59.86
BX-63	30	W	450	78.55	70.72	62.94
BX-64	30	W	475	89.15	80.26	71.43
BX-64A	30	W	535	95.10	85.61	76.19
BX-65	30	W	850	132.49	119.24	106.12
BX-71	30	W/D	455	62.00	55.80	49.66
BX-72	30	D	490	93.42	84.08	74.83
BX-74	30	W/D	525	62.00	55.80	49.66

*No Longer Available From Factory

MOTORCRAFT HEAVY DUTY TRUCK, FARM, COMMERCIAL AND SPECIALTY BATTERIES

BATTERY PART NO.	MONTHS OF ADJ. SERVICE	AVAIL- ABILITY WET/DRY	COLD CRANKING AMPS (@ 0°)	SUGGESTED PRICES		
				USER EXCH.	RETAILER	FLEET
HEAVY DUTY COMMERCIAL — 12 VOLT						
BH-4D	30	D	885	141.00	126.88	112.92
BH-8D	30	D	1155	172.40	155.16	138.09
BH-27A	30	W	715	121.40	109.27	97.25
BH-29H	30	W	655	90.88	81.79	72.79
BH-31*	30	W	625	90.88	81.79	72.79
BH-31A	30	W	655	90.88	81.79	72.79
HEAVY DUTY COMMERCIAL — 6 VOLT						
BH-1	30	D	545	59.45	53.49	47.61
BH-2	30	D	575	61.11	55.00	48.95
BH-4	30	D	775	76.45	68.80	61.23
BH-7D	30	D	935	90.90	81.79	72.79
FARM AND COMMERCIAL — 12 VOLT						
BH-3EE	30	D	420	59.45	53.49	47.61
BH-3ET	30	D	510	76.45	68.80	61.23
BH-4DLT	30	D	815	150.30	135.29	120.41
BH-29NF	30	D	425	60.30	54.27	48.30
FARM AND COMMERCIAL — 6 VOLT						
BH-3EH	30	D	885	79.85	71.85	63.95
LIGHT UTILITY, RV, MARINE — 12 VOLT						
BH-22NF	30	D	365	45.00	40.51	36.05
BH-24M	20	W	515	78.15	70.33	62.59
BH-U1	20	D	215	39.05	35.16	31.29
GOLF CART AND ELECTRIC VEHICLE — 6 VOLT						
BH-GC2	20	W	100(1)	91.70	82.55	73.47

(1) 100 minutes @ 75 amps.

WARRANTY ADJUSTMENT INFORMATION

If a failure occurs within the months of adjusted service period, the owner will pay a percentage of the replacement cost based on the Motorcraft price (fleet price for fleet users) at the time of adjustment. The adjustment table is shown on the battery warranty label.

BCI GROUP SIZE	MOTORCRAFT TESTED TOUGH PART NO.	PLATES PER CELL	COLD CRANKING AMPS (AT 0°F)	RESERVE CAPACITY (MINUTES)	MAXIMUM DIMENSIONS INCHES (MILLIMETERS)			APPROX. WEIGHT (LBS.)		ELECTRO- LYTE REQUIRED QTS.
					LENGTH	WIDTH	HEIGHT	DRY	WET	
TESTED TOUGH 60 SUPER HEAVY DUTY BATTERIES										
12 Volt Post Terminals										
22F	BX-22F	9	400	86	9-13/32 (238.7)	6-27/32 (173.8)	8-3/16 (207.5)	23	31	3.9
24	BX-24	12	525	120	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	29	41	4.7
24F	BX-24F	12	525	120	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	29	41	4.7
24F	BX-24FA	13	500	120	10-3/4 (273.1)	6-7/8 (174.2)	8-15/16 (227.1)	—	43	—
27	BX-27	12	540	126	12 (305.8)	6-27/32 (173.8)	8-21/32 (219.5)	31	44	5.8
27F	BX-27F	12	540	126	12-1/2 (316.7)	6-27/32 (173.8)	8-21/32 (219.5)	31	44	5.8
33	BX-33	22	1050	165	13-5/16 (338.1)	6-17/32 (158.0)	9-1/2 (241.3)	—	64	—
41	BX-41	15	525	92	11-17/32 (292.4)	6-7/8 (174.3)	6-27/32 (173.8)	—	36	—
58	BX-58A	13	450	90	9-7/16 (239.7)	7-7/32 (183.4)	6-31/32 (177.0)	—	36	—
58	BX-58B	13	475	90	9-7/16 (239.7)	7-7/32 (183.4)	6-31/32 (177.0)	—	32	—
63	BX-63	13	450	90	10-3/16 (257.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	40	—
64	BX-64	13	475	120	11-9/16 (295.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	46	—
64	BX-64A	15	535	120	11-9/16 (295.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	46	—
65	BX-65	20	850	140	11-1/8 (282.5)	7-3/16 (182.6)	7-9/16 (192.1)	—	52	—
12 Volt Side Terminals										
71	BX-71	10	455	76	8 (203.0)	7-5/32 (181.6)	8-3/16 (207.6)	24	32	3.2
72	BX-72	11	490	102	9-1/16 (230)	7-1/16 (179)	8-1/4 (210)	27	—	3.2
74	BX-74	12	525	120	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	30	41	4.7
TESTED TOUGH 50 PREMIUM HEAVY DUTY BATTERIES										
12 Volt Post Terminals										
21	BR-21	8	340	63	8 (203.0)	6-25/32 (172.2)	8-19/32 (218.2)	20	28	3.4
22F	BR-22F	8	340	68	9-13/32 (238.8)	6-27/32 (173.8)	8-3/16 (207.5)	21	31	4.0
24	BR-24	10	455	100	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	26	38	5.0
24F	BR-24F	10	455	100	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	26	38	5.0
42	BR-42	11	385	71	9-21/32 (244.6)	6-7/8 (174.8)	6-21/32 (169.2)	22	29	3.1
42F	BR-42F	11	385	71	9-13/16 (248.9)	6-7/8 (174.8)	7-1/4 (183.9)	—	29	—
45	BR-45	12	450	80	9-13/32 (233.7)	5-15/32 (138.9)	8-3/4 (222.2)	24	32	3.2
56	BR-56	13	505	86	10 (253.5)	6-1/32 (152.9)	8-1/32 (211.1)	27	35	4.3
58	BR-58	11	410	75	9-7/16 (239.0)	7-7/32 (183.0)	6-31/32 (176.7)	—	29	—
61	BR-61	9	310	60	7-19/32 (192.2)	6-3/8 (161.5)	8-7/8 (225.0)	—	29	—
62	BR-62	11	380	75	8-5/16 (226.4)	6-3/8 (161.5)	8-7/8 (225)	—	34	—
12 Volt Side Terminals										
71	BR-71	9	400	78	8 (203.0)	7-5/32 (181.6)	8-3/16 (207.6)	22	30	3.3
74	BR-74	10	455	100	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	26	38	5.0
TESTED TOUGH 40 PREMIUM BATTERIES										
12 Volt Post Terminals										
24	BA-24	8	340	80	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	23	35	5.2
24F	BA-24F	8	340	80	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	23	35	5.2
12 Volt Side Terminals										
74	BA-74	8	340	80	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	23	36	5.2
TESTED TOUGH HEAVY DUTY COMMERCIAL BATTERIES										
12 Volt										
4D	BH-4D	21	885	260	20-3/4 (527.0)	8-3/4 (222.3)	9-9/16 (242.9)	79	—	9.4
8D	BH-8D	29	1155	390	20-3/4 (527.0)	11 (279.4)	9-9/16 (242.9)	102	—	13.4
27	BH-27A	16	715	150	12 (305.8)	6-27/32 (173.5)	8-21/32 (219.5)	—	50	—
29H/30H	BH-29H	16	655	162	13 (329.4)	6-25/32 (172.2)	9-3/8 (237.5)	—	56	—
31	BH-31A	16	655	162	13 (329.4)	6-25/32 (172.2)	9-3/8 (237.5)	—	56	—
6 Volt										
1	BH-1	15	545	155	8-15/16 (226.5)	6-27/32 (173.3)	8-25/32 (222.8)	23	—	4.6
2	BH-2	16	575	174	10-9/32 (260.9)	7 (177.7)	9-3/32 (230.9)	25	—	5.3
4	BH-4	23	775	260	12-5/8 (320.4)	7 (177.7)	9-1/8 (231.3)	34	—	6.5
7D	BH-7D	27	935	360	16-8/32 (411.3)	7-1/32 (178.2)	9 (228.6)	49	—	6.5
TESTED TOUGH FARM, COMMERCIAL & SPECIALTY BATTERIES										
12 Volt										
3EE	BH-3EE	11	420	98	19-9/32 (489.7)	4-9/32 (108.7)	8-21/32 (219.2)	35	—	4.6
3ET	BH-3ET	13	510	145	19-9/32 (489.7)	4-9/32 (108.7)	9-19/32 (243.1)	45	—	5.2
4DLT	BH-4DLT	29	615	265	20 (507.3)	8-3/16 (207.5)	8 (203.2)	83	—	7.7
22NF	BH-22NF	10	365	68	9-13/32 (233.8)	5-15/32 (138.9)	8-3/4 (222.3)	21	—	3.4
24	BH-24M	13	515	128	11-1/8 (282.5)	6-27/32 (173.5)	9-5/32 (232.4)	—	44	—
29NF	BH-29NF	13	425	100	13 (329.4)	5-1/2 (140.7)	8-15/16 (226.8)	28	—	5.0
U1	BH-U1	9	215	45	7-25/32 (197.3)	5-3/16 (131.7)	7-1/8 (180.2)	17	—	1.8
6 Volt										
3EH	BH-3EH	25	885	310	19-9/32 (489.7)	4-9/32 (108.7)	9-25/32 (248.4)	43	—	5.6
GC2	BH-GC2	19	100 Min. @ 75A	—	10-3/8 (265.3)	7-3/16 (182.3)	10-1/2 (266.7)	—	60	—

MOTORCRAFT BATTERY LIMITED WARRANTY

FOR "TESTED TOUGH" BATTERIES

The label shown below will be attached to Motorcraft "Tested Tough" batteries. Batteries with this label are warranted by Ford Motor Company to the consumer. The terms and conditions of the warranty are shown on the label.

When a Motorcraft battery is purchased, it is important that the tear-off portion of the label is removed by the owner or installer. The owner's name, address, and date of purchase are to be filled in and the card should be attached to the owner's proof-of-purchase invoice and placed in the vehicle glove compartment. Both items must be furnished in case of subsequent battery failure.

CLAIM HANDLING PROCEDURES FOR DEALERS, WHOLESALERS AND FLEETS

Batteries presented for warranty must be properly tested and recharged if necessary to determine whether they are serviceable. Batteries that are discharged-only or that have been stored without use or recharging in distributor/jobber inventory are not eligible for replacement under warranty.

When a battery is not serviceable, the owner is to receive as a replacement an equivalent Motorcraft battery on a gratis (no cost) or pro rata basis as described on the label. An example of determining the owner's cost for a pro rata claim - more than three months of service - is shown below.

BA-24 - 15 months of service.

Owner's Percentage Replacement Cost (on battery label)		Present Publisher User Exchange Price	=	Consumer Replacement Pro Rata Cost
38%	X	\$45.90		\$17.44

This example reflects a consumer replacement pro rata adjustment. For a fleet or commercial battery, the fleet/commercial percentage replacement cost and published price should be used.

Dealers, Wholesalers and Fleets are to submit supporting documents to Motorcraft Warehouse Distributors. National Accounts and Special Market Accounts to obtain warranty on Motorcraft batteries. These Motorcraft accounts will in turn submit claims to Ford Parts and Service Division for reimbursement.

Motorcraft		PART NO.	BA-24	ADJ. PERIOD	40 MO.						
BATTERY LIMITED WARRANTY											
This Motorcraft battery is warranted by Ford Motor Co. to the original retail purchaser for the time shown above when it is used in a private passenger car or light truck. If the battery fails to hold a charge due to a defect in material or workmanship it should be returned to a Motorcraft retailer or wholesaler. THIS CARD AND YOUR DATED PURCHASE INVOICE ARE REQUIRED FOR WARRANTY REPLACEMENT.											
Name _____		Date Purchased _____ (Date Installed for Service Fleet)									
Address _____		City _____		State _____							
If a failure occurs the owner will pay a percentage of the replacement cost based on the Motorcraft user exchange price. Fleet price for fleet users at the time of the adjustment. Shown below are the adjustment tables for privately owned passenger cars and light trucks and fleet, farm, marine and other commercial vehicles.											
Adjustment Table											
Mo s After Purch	0-3	4-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50
Owner's Percentage Replacement Cost											
Car Lt Truck	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	97%
Fleet Commercial	0%	20%	40%	60%	80%	100%	Farm Marine & Other Commercial				
IMPORTANT: Further Warranty information is on the reverse side of this card.											
NOTE: Detach and KEEP with your purchase invoice											

DANGER-EXPLOSIVE CAN CAUSE BLINDNESS OR SEVERE INJURY. PROTECT EYES. SPARKS, FLAMES, CIGARETTES CAN CAUSE EXPLOSION: TOOLS AND CABLE CLAMPS CAN CAUSE SPARKS. DO NOT USE WITHOUT INSTRUCTION. KEEP VENT CAPS TIGHT AND LEVEL.

ACID-POISON CAUSES SEVERE BURNS. CONTAINS SULFURIC ACID. IN EVENT OF CONTACT, FLUSH WITH WATER AND SEE A DOCTOR.

KEEP OUT OF REACH OF CHILDREN

PART NO.	BA-24
COLD CRANKING AMPS	340
RESERVE CAPACITY	80
DIST. BY FORD MOTOR CO. DEARBORN, MI 48121	
SERIAL NUMBER	A 080685

The Motorcraft Limited Battery Warranty does not cover:

1. Failure as a result of use in applications other than those recommended in Motorcraft catalogs
2. Damage to case, cover or terminals caused by abuse, negligence, freezing or improper installation
3. Cost of recharging or use of a rental battery
4. Labor to remove and replace battery in the vehicle
5. To the extent allowed by law, loss of time, inconvenience, loss of use of the vehicle or other consequential damages

THERE IS NO OTHER EXPRESS WARRANTY ON MOTORCRAFT BATTERIES.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THE WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES OR HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Inquiries concerning this warranty should be directed to:

Warranty Administration, Ford Parts and Service Division
3000 Schaefer Road Dearborn, Michigan 48121

**NOTE: THE BATTERIES IN THE FOLLOWING
SECTION HAVE BEEN REPLACED BY THE TESTED
TOUGH BATTERY LINE. PRICES AND
SPECIFICATIONS ARE PROVIDED HERE
FOR REFERENCE ONLY.**

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

MOTORCRAFT BATTERY SUGGESTED FLEET PRICE SCHEDULE

MAINTENANCE FREE BATTERIES

DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED		DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED		DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED	
		LIST	FLEET			LIST	FLEET			LIST	FLEET
21	MFR-21	72.00	48.97	27F	MF-27F	88.05	59.87	62	MF-62	88.25	60.00
22F	MF-22FC	74.05	50.35	27F	MFR-27F	76.05	51.71	63	MF-63	92.55	62.93
22FC	MFR-22FC	63.00	42.83	31	MF-31	162.35	110.40T	64	MF-64	101.65	69.13
24C	MF-24C	86.05	58.51	31	MF-31A	166.05	112.92T	64	MF-64A	108.10	73.53
24C	MFR-24C	72.00	48.97	31	MF-31AS	166.05	112.92T	71	MF-71	79.85	54.29
24F	MF-24F	86.05	58.51	31	MF-31S	162.35	110.40T	71	MFR-71	70.55	47.99
24F	MFR-24F	72.00	48.97	57	MF-57	84.35	57.35	72	MF-72	90.95	61.84
27C	MF-27C	88.05	59.87	58	MF-58	86.05	58.51	73	MFR-73	74.05	50.35
27C	MFR-27C	76.05	51.71	58	MF-58A	88.05	59.87	74	MF-74	88.05	59.87
27C	MF-27CA	113.05	76.87	61	MF-61	82.35	56.00	74	MFR-74	74.05	50.35

DRY CHARGE BATTERIES

DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED		DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED		DIMEN- SIONAL GROUP SIZE BCI	PART NO.	SUGGESTED	
		LIST	FLEET			LIST	FLEET			LIST	FLEET
42	E-42	73.80	50.19	22F	R-22FCA	62.85	42.75	4	V-4	101.40	68.97T
42	E-42F	75.75	51.51	23	R-23	75.75	51.51	1	1HG	55.70	37.87
22F	G-22FC	70.00	47.61	24C	R-24C	64.00	43.53	19L	1LS	50.00	34.01
24C	G-24C	82.05	55.79	24C	R-24CA	71.10	48.37	18	1LSH	55.70	37.87
24F	G-24F	82.05	55.79	24C	R-24CB	71.80	48.84	1	1MS	56.75	38.61
24	G-24M	95.40	64.88	24F	R-24F	64.00	43.53	1	1MST	52.05	35.40
27C	G-27C	84.05	57.15	24F	R-24FA	72.55	49.35	2E	2E	56.00	38.09
27F	G-27F	84.05	57.15	24	R-24M	84.55	57.49	GC2	2GC	101.40	68.96
72	G-72	78.05	58.07	27C	R-27C	70.00	47.61	GC2	2GCA	107.70	73.25
74	G-74	84.05	57.15	27C	R-27CA	83.25	56.61	2	2HG	62.75	42.67
1	GN-1	47.15	32.08	27F	R-27F	72.00	48.97	2N	2HN	56.00	38.09
2	GN-2	47.15	32.08	27F	R-27FA	72.00	48.97	2L	2LG	55.70	37.87
2E	GN-2E	47.15	32.08	29HR	R-29HR	101.30	68.89	3EE	3EE	68.30	46.45
22F	GN-22FC	56.00	38.09	29NF	R-29NF	69.80	47.47	3EH	3EHA-172	109.05	74.16
24C	GN-24C	56.00	38.09	30H	R-30H95	131.15	89.20	3ET	3HE	96.05	65.31
24F	GN-24F	56.00	38.09	32N	R-32N	75.75	51.51	4D	4DA	205.30	139.61T
24	GN-24M	77.10	52.43	43	R-43	70.00	47.61	4DLT	4DLT	167.85	114.16
29NF	GN-29NF	63.70	43.33	54	R-54	69.80	47.47	4EH	4EH	123.95	84.29
74	GN-74	56.00	38.09	55	R-55	74.40	50.61	5D	5DA	113.25	77.01T
U1	LU-7	49.40	33.61	56	R-56	80.05	54.43	7D	7DA	127.55	86.75T
U1	LU-9	53.30	36.25	60	R-60	74.40	50.61	8D	8DA	239.70	163.01T
1	R-1	61.40	41.77	64	R-64	85.90	58.43	8D	8DAT	250.10	170.07T
2	R-2	84.05	57.15T	72	R-72	66.00	44.89	8D	8DB	311.35	211.71T
3	R-3	90.05	61.23	74	R-74	68.00	46.25	22NF	10HN	63.25	43.01
4	R-4	107.35	73.01	77	R-77	91.15	62.00	16TF	16TF	170.05	115.64
22F	R-22FC	58.00	39.45	U1	SM-9	63.45	43.17	17TF	17TF	120.05	81.65

ACCESSORIES AND ELECTROLYTE

PART NUMBER	DESCRIPTION	PACKAGE QUANTITY	LIST	FLEET
BB-14*	QUIK-PAK Electrolyte 5 Gallon (with hose & clamp)	1	9.20	5.04
BB-16	Electrolyte 1.54 Gallon (with Hose)	1	4.40	2.26
BB-40	Tiltite Spillproof Battery Caps	24	1.45	64 ea.

*Minimum Contents 4.95 Gallons

FLEET ADJUSTMENT INFORMATION AND COST TABLE FOR SERVICE INSTALLED BATTERIES

MOTORCRAFT TYPE NUMBER	A PASSENGER CARS AND LIGHT TRUCKS		B TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
E-42	48	1.09	24	2.17
E-42F	48	1.11	24	2.23
G-22FC	60	.83	30	1.65
G-24C	60	.96	30	1.93
G-24F	60	.96	30	1.93
G-24M	—	—	24	2.79
G-27C	60	.99	30	1.97
G-27F	60	.99	30	1.97
G-72	60	.92	30	1.84
G-74	60	.99	30	1.97
GN-1	36	.95	18	1.89
GN-2	36	.95	18	1.89
GN-2E	36	.95	18	1.89
GN-3EE	36	1.23	18	2.47
GN-22FC	36	1.11	18	2.23
GN-24C	36	1.11	18	2.23
GN-24F	36	1.11	18	2.23
GN-24M	—	—	12	4.54
GN-29NF	36	1.26	18	2.52
GN-74	36	1.11	18	2.23
LU-7	—	—	12	2.97
LU-9	—	—	12	3.19
MFR-21	48	1.02	24	2.04
MF-22FC	60	.84	30	1.68
MFR-22FC	48	.89	24	1.78
MF-24C	60	.98	30	1.95
MFR-24C	48	1.02	24	2.04
MF-24F	60	.98	30	1.95
MFR-24F	48	1.02	24	2.04
MF-27C	60	1.00	30	2.00
MF-27CA	60	1.28	30	2.56
MFR-27C	48	1.08	24	2.15
MF-27F	60	1.00	30	2.00
MFR-27F	48	1.08	24	2.15
MF-31	—	—	36	3.07
MF-31A	—	—	36	3.14
MF-31AS	—	—	36	3.14
MF-31S	—	—	36	3.07
MF-57	60	.96	30	1.91
MF-58	60	.98	30	1.95
MF-58A	60	1.00	30	2.00
MF-61	60	.93	30	1.87
MF-62	60	1.00	30	2.00
MF-63	60	1.05	30	2.10
MF-64	60	1.15	30	2.30
MF-64A	60	1.23	30	2.45
MF-71	60	.90	30	1.81
MFR-71	48	1.00	24	2.00
MF-72	60	1.03	30	2.06
MFR-73	48	1.05	24	2.10
MF-74	60	1.00	30	2.00
MFR-74	48	1.05	24	2.10
R-1	—	—	24	1.82
R-2	—	—	24	2.46
R-3	—	—	36	1.76
R-4	—	—	36	2.08
R-4R-15(8V)	—	—	24	3.22
R-22FC	48	.86	24	1.73
R-22FCA	48	.93	24	1.86
R-22FCB	48	1.03	24	2.06

MOTORCRAFT TYPE NUMBER	A PASSENGER CARS AND LIGHT TRUCKS		B TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
R-22HF	48	1.03	24	2.06
R-22HFA	48	1.04	24	2.08
R-23	48	1.11	24	2.23
R-24C	48	.95	24	1.90
R-24CA	48	1.05	24	2.10
R-24CB	48	1.06	24	2.12
R-24F	48	.95	24	1.90
R-24FA	48	1.07	24	2.14
R-24FB	48	1.03	24	2.06
R-24M	—	—	18	3.31
R-27C	48	1.03	24	2.07
R-27CA	48	1.22	24	2.44
R-27F	48	1.06	24	2.12
R-27FA	48	1.06	24	2.12
R-27FB	48	1.12	24	2.23
R-29HR	48	1.48	24	2.95
R-29NF	48	1.03	24	2.06
R-30H-95	48	1.90	24	3.80
R-32N	48	1.11	24	2.23
R-43	48	1.03	24	2.07
R-53	48	1.03	24	2.06
R-54	48	1.03	24	2.06
R-55	48	1.10	24	2.19
R-56	48	1.18	24	2.35
R-60	48	1.10	24	2.19
R-64	48	1.26	24	2.52
R-72	48	.98	24	1.95
R-74	48	1.01	24	2.01
R-74A	48	.98	24	1.96
R-77	48	1.33	24	2.67
SM-9	—	—	12	3.76
V-3	—	—	24	2.10
V-4	—	—	24	2.96
1HG	36	1.11	18	2.22
1LS	36	1.00	18	2.00
1LSH	36	1.11	18	2.22
1MS	—	—	24	1.69
1MST	—	—	24	1.56
2E	36	1.11	18	2.23
2GC	—	—	18	3.94
2GCA	—	—	24	3.14
2HG	36	1.24	18	2.48
2HN	36	1.11	18	2.23
2LG	36	1.11	18	2.22
3EE	36	1.35	18	2.69
3EHA-172	—	—	24	3.17
3HE	—	—	24	2.80
4DA	—	—	24	5.94
4DLT	—	—	36	3.25
4EH	—	—	36	2.40
5DA	—	—	24	3.33
6DA	—	—	24	6.30
7DA	—	—	24	3.74
8DA	—	—	24	6.92
8DAT	—	—	24	7.21
8DB	—	—	24	8.95
10HN	36	1.25	18	2.50
16TF	—	—	24	4.94
17TF	—	—	36	2.32

MAINTENANCE FREE BATTERY SPECIFICATION CHART

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			WEIGHT (LBS.)	BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			WEIGHT (LBS.)
		LENGTH	WIDTH	HEIGHT				LENGTH	WIDTH	HEIGHT	
MF-22FC	12	9-1/2	6-13/16	8-15/32	38.3	MF-57	12	8	7-3/16	7	26.8
MFR-22FC	12	9-1/2	6-27/32	8-15/16	29	MF-58	12	9-7/16	7-3/16	7	32.7
MF-24C	12	10-9/32	6-13/16	9-1/16	46.8	MF-58A	12	9-7/16	7-3/16	7	34.1
MFR-24C	12	10-9/32	6-27/32	9-1/16	35	MF-61	12	7-9/16	6-7/16	8-7/8	27.4
MF-24F	12	10-3/4	6-13/16	9-1/16	46.8	MF-62	12	8-15/16	6-7/16	8-7/8	33.4
MFR-24F	12	10-3/4	6-27/32	9-1/16	35	MF-63	12	10-3/16	6-7/16	8-7/8	38.4
MF-27C	12	12-1/16	6-13/16	9-1/16	55.8	MF-64	12	11-9/16	6-5/16	8-7/8	43.2
MFR-27C	12	12-1/16	6-27/32	9-1/16	41	MF-64A	12	11-9/16	6-5/16	8-7/8	43.3
MF-27F	12	12-1/2	6-13/16	9-1/16	55.9	MFR-71	12	8-5/32	7-5/32	8-1/8	29
MFR-27F	12	12-1/32	6-27/32	9-1/16	41	MF-72	12	9-1/16	7-5/32	7-21/32	40.3
MF-31	12	13-3/32	7-1/8	9-3/4	65.3	MFR-73	12	8-5/16	7-5/32	8-1/8	33
MF-31A	12	13-3/32	7-1/8	9-3/4	73.8	MF-74	12	10-9/32	7-5/32	8-9/32	46.8
MF-31AS	12	13-3/32	7-1/8	9-13/16	73.8	MFR-74	12	10-9/32	7-5/32	8-9/32	35
MF-31S	12	13-3/32	7-1/8	9-13/16	65.3						

DRY CHARGE BATTERIES

DIMENSIONAL GROUP SIZE	MOTORCRAFT PART NO.	VOLTS	NO. OF PLATES PER CELL	COLD POWER RATING (AMPS.)	RESERVE CAPACITY (MINS.)	20 HOUR RATING (AMP. HRS.)	MAXIMUM DIMENSIONS (INCHES)			APPROX. QUARTS REQ'D.
							LENGTH	WIDTH	HEIGHT	
42	E-42	12	11	300	75	45	9-13/16	6-7/8	6-29/32	3-1/4
42	E-42F	12	13	350	95	54	9-13/16	6-7/8	7-1/4	3-1/4
22F	G-22FC	12	11	370	93	60	9-7/16	6-7/8	8-5/16	4
24C	G-24C	12	13	470	130	80	10-9/32	6-27/32	8-15/16	5-1/2
24F	G-24F	12	13	470	130	80	10-25/32	6-27/32	8-13/16	5-2/5
24	G-24M	12	13	470	135	61	10-9/32	6-13/16	9-7/8	4-1/2
27C	G-27C	12	15	530	159	87	12-1/16	6-27/32	8-13/16	6-1/2
27F	G-27F	12	15	530	159	87	12-17/32	6-27/32	8-13/16	6-1/2
72	G-72	12	11	370	93	60	9-7/16	7-9/32	8-1/4	4-1/2
74	G-74	12	13	470	130	80	10-9/32	7-9/32	8-3/4	5-1/2
1	GN-1	6	9	290	73	53	9-1/16	7-1/16	8-15/16	4-1/2
2	GN-2	6	11	345	93	70	10-5/16	7-1/16	8-15/16	5-1/4
2E	GN-2E	6	13	370	110	70	19-1/4	4	9-1/32	5-1/2
22F	GN-22FC	12	7	230	52	42	9-1/2	6-13/16	8-5/16	3-3/4
24C	GN-24C	12	7	230	52	41	10-1/4	6-13/16	8-15/16	5-1/4
24F	GN-24F	12	7	230	52	46	10-3/4	6-13/16	8-15/16	5
24	GN-24M	12	9	315	73	41	10-9/32	6-13/16	9-7/8	4-1/2
29NF	GN-29NF	12	9	245	53	42	13	5-1/2	9-5/32	4-3/4
74	GN-74	12	9	300	63	49	10-9/32	7-5/32	8-3/4	6-1/4
U1	LU-7	12	7	160	23	24	7-3/4	5-5/32	7-9/32	2
U1	LU-9	12	9	200	32	32	7-3/4	5-5/32	7-9/32	2
1	R-1	6	17	545	185	120	9-1/16	7-1/16	8-15/16	4-1/2
2	R-2	6	19	650	235	140	10-5/16	7-1/16	9-9/32	5-1/2
3	R-3	6	21	650	235	150	11-1/2	7-1/16	9-9/32	6-1/4
4	R-4	6	23	720	280	163	12-11/16	7-1/16	9-9/32	7
8 Volt Marine	R-4R15	8	15	520	165	105	13	7	9-3/8	7-3/4
22F	R-22FC	12	9	310	75	50	9-7/16	6-7/8	8-5/16	3-3/4
22F	R-22FCA	12	11	370	93	60	9-7/16	6-7/8	8-5/16	4-1/2
22HF	R-22HF	12	9	310	76	50	9-7/16	6-7/8	8-13/16	4-1/4
23	R-23	12	13	410	105	63	10-3/4	6-7/8	8-7/16	4
24C	R-24C	12	9	290	75	50	10-9/32	6-27/32	8-13/16	5
24C	R-24CA	12	11	380	100	60	10-9/32	6-27/32	8-13/16	5
24C	R-24CB	12	11	420	118	67	10-9/32	6-27/32	8-13/16	5-1/5
24F	R-24F	12	11	380	100	60	10-25/32	6-27/32	8-13/16	5
24F	R-24FA	12	13	460	120	70	10-25/32	6-27/32	8-13/16	5
24	R-24M	12	11	390	100	65	10-9/32	6-13/16	9-7/8	6-1/4
27C	R-27C	12	11	390	106	62	12-1/16	6-27/32	8-13/16	5-3/4
27C	R-27CA	12	13	475	138	75	12-1/16	6-27/32	8-13/16	5-3/5
27F	R-27F	12	13	450	125	70	12-17/32	6-27/32	8-13/16	5-1/4
27F	R-27FA	12	13	470	130	80	12-17/32	6-27/32	8-13/16	5
29NF	R-29NF	12	11	300	73	55	13	5-1/2	9-5/32	5
30H	R-30H95	12	17	580	180	95	13-17/32	6-17/32	9-9/32	6-1/2
32N	R-32N	12	13	345	98	66	14-1/4	5-1/2	9-5/32	5-3/4

DRY CHARGE BATTERIES (Cont.) **BATTERY SPECIFICATION CHART**

DIMENSIONAL GROUP SIZE	MOTORCRAFT PART NO.	VOLTS	NO. OF PLATES PER CELL	COLD POWER RATING (AMPS.)	RESERVE CAPACITY (MINS.)	20 HOUR RATING (AMP. HRS.)	MAXIMUM DIMENSIONS (INCHES)			APPROX. QUARTS REQ'D.
							LENGTH	WIDTH	HEIGHT	
BCI										
43	R-43	12	13	395	120	80	13-3/16	6-7/8	8-1/16	6
54	R-54	12	9	310	60	36	7-11/32	6-1/32	8-3/8	4
55	R-55	12	11	380	75	45	8-19/32	6-1/32	8-3/8	5
56	R-56	12	13	450	90	54	10-1/32	6-1/32	8-3/8	5
60	R-60	12	9	310	83	62	13-1/16	6-1/4	8-15/16	6
64	R-64	12	13	475	120	71	11-11/16	6-5/16	8-7/8	6
72	R-72	12	9	300	63	49	9-7/16	7-9/32	8-1/4	4-1/2
74	R-74	12	11	380	100	60	10-9/32	7-9/32	8-3/4	3-3/4
77	R-77	12	13	455	120	79	12-1/16	7-9/32	8-3/4	5
4	V-4	6	21	700	290	158	12-11/16	7-1/16	9-9/32	7
1	1HG	6	13	395	120	80	9-1/16	7-1/16	8-15/16	4-1/4
19L	1LS	6	13	395	120	80	8-3/8	6-3/4	7-13/32	2-3/4
18	1LSH	6	15	430	140	82	7-13/16	6-29/32	8-19/32	3
1	1MS	6	15	440	145	90	9-1/16	7-1/16	8-15/16	4-1/4
1	1MST	6	11	345	93	65	9-1/16	7-1/16	8-15/16	4-1/2
GC2	2GC	6	15	(75 Amps, 90 Min.)		170	10-3/8	7-1/8	11-19/32	6-1/4
GC2	2GCA	6	17	(75 Amps, 110 Min.)		200	10-3/8	7-1/8	11-19/32	6
2	2HG	6	15	475	150	100	10-5/16	7-1/16	9-9/32	5-1/2
2N	2HN	6	19	495	170	100	10	5-1/2	9-1/16	3-3/4
2L	2LG	6	13	395	120	80	10-5/16	7-1/16	8-3/8	4-3/4
3EE	3EE	12	9	310	83	60	19-5/16	4-3/8	8-25/32	5-1/2
3EH	3EHA-172	6	25	830	340	180	19-5/16	4-11/32	9-25/32	6
3ET	3HE	12	13	425	120	78	19-5/16	4-3/8	9-23/32	6
4D	4DA	12	21	700	290	158	20-3/4	8-3/4	9-13/16	11-1/2
4DLT	4DLT	12	25	760	280	128	20	8-3/16	8	10
5D	5DA	6	25	830	340	172	13-1/2	7-1/8	9-1/4	6
7D	7DA	6	29	900	430	210	16-1/4	7-1/8	9-1/4	7-1/4
8D	8DA	12	29	900	430	210	20-3/4	11	9-13/16	15-1/2
8D	8DAT	12	29	900	430	210	22-1/4	11	9-13/16	15-1/2
8D	8DB	12	29	1000	395	215	20-3/4	11	9-23/32	15-1/2
22NF	10HN	12	9	245	52	44	9-7/16	5-1/2	9-61/64	3-1/
16TF	16TF	12	15	640	240	135	16-17/32	7-1/8	11-5/32	10
17TF	17TF	12	17	525	175	80	17-1/16	6-7/8	8	7

MOTORCRAFT BATTERY LIMITED WARRANTY

FOR OTHER THAN "TESTED TOUGH" BATTERIES

The label shown below will be attached to Motorcraft batteries shipped after April 1, 1982. Batteries with this label are warranted by Ford Motor Company to the consumer. The terms and conditions of the warranty are shown on the label.

When a Motorcraft battery is purchased, it is important that the tear-off portion of the label is removed by the owner or installer. The owner's name, address and date of purchase are to be filled in and the card should be attached to the owner's proof-of-purchase invoice and placed in the vehicle glove compartment. Both items must be furnished in case of subsequent battery failure.

CLAIM HANDLING PROCEDURES FOR DEALERS, WHOLESALEERS AND FLEETS

Batteries presented for warranty must be properly tested and recharged if necessary to determine whether they are, in fact, serviceable. **Batteries that are discharged-only or that have been stored without use or recharging for extended periods are not eligible for replacement under warranty.**

When a battery is found to be not serviceable, the time in service is to be determined by examination of the owner's warranty card and proof-of-purchase invoice. Qualified Fleets are required to enter the date of installation. Purchase invoices are not required.

Depending on the time in service, the owner is to receive as a replacement an equivalent Motorcraft battery on a gratis (no cost) or pro rata basis as described on the label.

Dealers, Wholesalers and Fleets are to submit supporting documents to Motorcraft Warehouse Distributors, National Accounts and Special Market Accounts to obtain warranty on Motorcraft batteries. These Motorcraft accounts will in turn submit claims to Ford Parts and Service Division for reimbursement. When transactions between different levels of distribution occur, internal invoices or memorandums should be prepared using information from the tear-off portion of the warranty label and proof-of-purchase invoice.

Motorcraft		PART NO.	MFR-27F	ADJ. PERIOD	48
BATTERY LIMITED WARRANTY					
This Motorcraft battery is warranted by Ford Motor Co. to the original retail purchaser for the time shown above when it is used in a private passenger car or light truck. If the battery fails to hold a charge due to a defect in material or workmanship it should be returned to a Motorcraft retailer or wholesaler. THIS CARD AND YOUR DATED PURCHASE INVOICE ARE REQUIRED FOR WARRANTY REPLACEMENT.					
Name _____		Date Purchased _____			
		(Date Installed for Fleet Service)			
Address _____		City _____		State _____	
If failure occurs within the first 3 months from date of purchase, the battery will be replaced with an equivalent Motorcraft battery free of charge. After this period, the cost of replacement will be prorated on the basis of a monthly charge for the number of months after purchase. For privately owned cars and light trucks, the monthly cost is based on the current Motorcraft suggested list price at the time of adjustment. Fleet, Farm, Marine and other commercial users are covered by specific application and adjustment periods published in Motorcraft Fleet and consumer price lists.					
IMPORTANT: Further Warranty information is on the reverse side of this card. DETACH AND KEEP WITH YOUR PURCHASE INVOICE					
					PLANT CODE SERIAL NUMBER № 314134

Motorcraft		PART NO.	MFR-27F
POISON/DANGER - CAUSES SEVERE BURNS Contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL - Flush with water. INTERNAL - Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. Eyes: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases: Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.		COLD CRANKING AMPS	
KEEP OUT OF REACH OF CHILDREN		485	
		RESERVE CAPACITY	
		95	
		DIST. BY FORD MOTOR CO. DEARBORN, MICH. 48121	
		SERIAL NUMBER	
		№ 314134	

The Motorcraft Limited Battery Warranty does not cover:	
1. Failure as a result of use in applications other than those recommended in Motorcraft catalogs	
2. Damage to case, cover or terminals caused by abuse, negligence, freezing or improper installation	
3. Cost of recharging or use of a rental battery	
4. Labor to remove and replace battery in the vehicle	
5. To the extent allowed by law, loss of time, inconvenience, loss of use of the vehicle or other consequential damages	
THERE IS NO OTHER EXPRESS WARRANTY ON MOTORCRAFT BATTERIES.	
ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THE WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES OR HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.	
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.	
Inquiries concerning this warranty should be directed to:	
Warranty Administration, Ford Parts and Service Division 3000 Schaefer Road Dearborn, Michigan 48126	

(Reverse Side of Warranty Card)

MOTORCRAFT INTERCHANGE
Tested Tough Line to Previous Line

TESTED TOUGH BATTERY NO.	REPLACES
BA-24	R-24C, GN-24C
BA-24F	GN-24F
BA-74	GN-74
BH-1	R-1, 1MS, 1HG, GN-1
BH-2	R-2, 2HG, GN-2
BH-3EE	3EE
BH-3EH	3EHA-172
BH-3ET	3HE
BH-4	R-4, V-4
BH-4D	4DA
BH-4DLT	4DLT
BH-7D	7DA
BH-8D	8DA, 8DB
BH-22NF	10HN
BH-24M*	G-24M, R-24CB
BH-27A	MF-27CA
BH-29H	R30H-95, MF-31, MF-31A
BH-29NF	R-29NF
BH-31A	MF-31S, MF-31AS
BH-GC2	2GC, 2GCA
BH-U1	LU-7, LU-9
BR-21	MFR-21
BR-22F	MFR-22FC, GN-22FC, R-22FC
BR-24	MFR-24C, R-24CA
BR-24F	MFR-24F, R-24F, R-23
BR-42	E-42
BR-42F	E-42F
BR-45	NONE-NEW
BR-56	R-54, R-55, R-56
BR-61	MF-61
BR-62	MF-62
BR-71	MF-71, MFR-71, R-72
BR-74	R-74, MFR-74
BX-22F	MF-22FC, G-22FC, R-22FCA
BX-24	MF-24C, G-24C
BX-24F	MF-24F, G-24F, R-24FA
BX-24FA	MF-24F
BX-27	R-27C, MF-27C, MFR-27C, G-27C
BX-27F	G-27F, MF-27F, MFR-27F, R-27F, R-27FA, R-29HR
BX-33	NONE-NEW
BX-41	NONE-NEW
BX-58B	MF-57, MF-58, MF-58A
BX-63	MF-63
BX-64	MF-64, R-64
BX-64A	MF-64A, MF-64, R-64
BX-65	NONE-NEW
BX-71	MFR-73, G-72
BX-74	MF-74, G-74, R-77

*Check terminal height to hood clearance.

Motorcraft QUALITY PARTS
FOR ALL MAKES OF CARS AND TRUCKS

ANTHONY MOTOR PARTS CORP.
101 S. CLINTON
FORT WAYNE, INDIANA 46802
PHONE 423-1371

TESTED TOUGH BATTERY SUGGESTED USER EXCHANGE PRICE LIST

MOTORCRAFT PASSENGER CAR AND LIGHT TRUCK BATTERIES

BATTERY PART NO.	MONTHS OF ADJ. SERVICE	AVAIL-ABILITY WET/DRY	COLD CRANKING AMPS (@ 0°)	SUGGESTED PRICES USER EXCH.
BA-24	40	W/D	340	45.90
BA-24F	40	W/D	340	45.90
BA-74	40	W/D	340	45.90
BR-21	50	W/D	340	57.75
BR-22F	50	W/D	340	46.70
BR-24	50	W/D	455	52.65
BR-24F	50	W/D	455	52.65
BR-42	50	W/D	385	62.85
BR-42F	50	W	385	73.05
BR-45	50	W/D	450	62.85
BR-56	50	W/D	505	64.55
BR-58	50	W	410	56.06
BR-61	50	W	310	69.90
BR-62	50	W	380	56.06
BR-71	50	W/D	400	52.65
BR-74	50	W/D	455	52.65
BX-22F	60	W/D	400	54.35
BX-24	60	W/D	525	62.00
BX-24F	60	W/D	525	62.00
BX-24FA*	60	W	500	79.10
BX-27	60	W/D	540	63.70
BX-27F	60	W/D	540	63.70
BX-33	60	W	1050	162.21
BX-41	60	W	525	84.90
BX-58*	60	W	410	74.73
BX-58A*	60	W	450	82.39
BX-58B	60	W	475	74.73
BX-63	60	W	450	78.55
BX-64	60	W	475	89.15
BX-64A	60	W	535	95.10
BX-65	60	W	850	132.49
BX-71	60	W/D	455	62.00
BX-72	60	D	490	93.42
BX-74	60	W/D	525	62.00

*No Longer Available From Factory

MOTORCRAFT HEAVY DUTY TRUCK, FARM, COMMERCIAL AND SPECIALTY BATTERIES

BATTERY PART NO.	MONTHS OF ADJ. SERVICE	AVAIL-ABILITY WET/DRY	COLD CRANKING AMPS (@ 0°)	SUGGESTED PRICES USER EXCH.
HEAVY DUTY COMMERCIAL — 12 VOLT				
BH-4D	30	D	885	141.00
BH-8D	30	D	1155	172.40
BH-27A	30	W	715	121.40
BH-29H	30	W	655	90.88
BH-31*	30	W	625	90.88
BH-31A	30	W	655	90.88
HEAVY DUTY COMMERCIAL — 6 VOLT				
BH-1	30	D	545	59.45
BH-2	30	D	575	61.11
BH-4	30	D	775	76.45
BH-7D	30	D	935	90.90
FARM AND COMMERCIAL — 12 VOLT				
BH-3EE	30	D	420	59.45
BH-3ET	30	D	510	76.45
BH-4DLT	30	D	815	150.30
BH-29NF	30	D	425	60.30
FARM AND COMMERCIAL — 6 VOLT				
BH-3EH	30	D	885	79.85
LIGHT UTILITY, RV, MARINE — 12 VOLT				
BH-22NF	30	D	365	45.00
BH-24M	20	W	515	78.15
BH-U1	20	D	215	39.05
GOLF CART AND ELECTRIC VEHICLE — 6 VOLT				
BH-GC2	20	W	100(1)	91.70

(1) 100 minutes @ 75 amps.

WARRANTY ADJUSTMENT INFORMATION

If a failure occurs within the months of adjusted service period, the owner will pay a percentage of the replacement cost based on the Motorcraft price (fleet price for fleet users) at the time of adjustment. The adjustment table is shown on the battery warranty label.

Motorcraft QUALITY PARTS

FOR ALL MAKES OF CARS AND TRUCKS

MOTORCRAFT INTERCHANGE

Previous Line to Tested Tough Line

REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.	REPLACED BATTERY PART NO.	MOTORCRAFT TESTED TOUGH PART NO.
MFR-21	BR-21	G-24F	BX-24F	R-43	None
MF-22FC	BX-22F	G-24M	BH-24M	R-54	BR-56
MFR-22FC	BR-22F	G-27C	BX-27	R-55	BR-56
MF-24C	BX-24	G-27F	BX-27F	R-56	BR-56
MFR-24C	BR-24	G-72	BX-71	R-60	None
MF-24F	BX-24F	G-74	BX-74	R-64	BX-64A
MF-24FA	BX-24F	GN-1	BH-1	R-72	BR-71
MFR-24F	BR-24F	GN-2	BH-2	R-74	BR-74
MF-27C	BX-27	GN-2E	None	R-77	BX-74
MF-27CA	BX-27	GN-22FC	BR-22F	V-4	BH-4
MFR-27C	BX-27	GN-24C	BA-24	1HG	BH-1
MF-27F	BX-27F	GN-24F	BA-24F	1LS	None
MFR-27F	BX-27F	GN-74	BA-74	1MS	BH-1
MF-31	BH-29H	LU-7	BH-U1	2E	None
MF-31A	BH-29H	LU-9	BH-U1	2GC	BH-GC2
MF-31AS	BH-31A	R-1	BH-1	2GCA	BH-GC2
MF-31S	BH-31A	R-2	BH-2	2HG	BH-2
MF-57	BX-58B	R-3	None	2HN	None
MF-58	BX-58B	R-4	BH-4	2LG	None
MF-58A	BX-58B	R-22FC	BR-22F	3EE	BH-3EE
MF-61	BR-61	R-22FCA	BX-22F	3EHA-172	BH-3EH
MF-62	BR-62	R-23	BR-24F	3HE	BH-3ET
MF-63	BX-63	R-24C	BA-24	4DA	BH-4D
MF-64	BX-64A	R-24CA	BR-24	4DLT	BH-4DLT
MF-64A	BX-64A	R-24CB	BR-24	4EH	None
MF-71	BR-71	R-24F	BR-24F	5DA	None
MFR-71	BR-71	R-24FA	BX-24F	7DA	BH-7D
MFR-73	BX-71	R-27C	BX-27	8DA	BH-8D
MF-74	BX-74	R-27CA	BX-27	8DAT	None
MFR-74	BR-74	R-27F	BX-27F	8DB	BH-8D
MF-27CA	BH-27A	R-27FA	BX-27F	10HN	BH-22NF
E-42	BR-42	R-29HR	BX-27F	16TF	None
E-42F	BR-42F	R-29NF	BH-29NF	17TF	None
G-22FC	BX-22F	R-30H-95	BH-29H		
G-24C	BX-24	R-32N	None		

MOTORCRAFT BATTERY LIMITED WARRANTY

FOR "TESTED TOUGH" BATTERIES

The label shown below will be attached to Motorcraft "Tested Tough" batteries. Batteries with this label are warranted by Ford Motor Company to the consumer. The terms and conditions of the warranty are shown on the label.

When a Motorcraft battery is purchased, it is important that the tear-off portion of the label is removed by the owner or installer. The owner's name, address, and date of purchase are to be filled in and the card should be attached to the owner's proof-of-purchase invoice and placed in the vehicle glove compartment. Both items must be furnished in case of subsequent battery failure.

CLAIM HANDLING PROCEDURES FOR DEALERS, WHOLESALERS AND FLEETS

Batteries presented for warranty must be properly tested and recharged if necessary to determine whether they are serviceable. Batteries that are discharged-only or that have been stored without use or recharging in distributor/jobber inventory are not eligible for replacement under warranty.

When a battery is not serviceable, the owner is to receive as a replacement an equivalent Motorcraft battery on a gratis (no cost) or pro rata basis as described on the label. An example of determining the owner's cost for a pro rata claim - more than three months of service - is shown below.

BA-24 - 15 months of service.

Owner's Percentage Replacement Cost (on battery label)		Present Publisher User Exchange Price		Consumer Replacement Pro Rata Cost
38%	X	\$45.90	=	\$17.44

This example reflects a consumer replacement pro rata adjustment. For a fleet or commercial battery, the fleet/commercial percentage replacement cost and published price should be used.

Dealers, Wholesalers and Fleets are to submit supporting documents to Motorcraft Warehouse Distributors. National Accounts and Special Market Accounts to obtain warranty on Motorcraft batteries. These Motorcraft accounts will in turn submit claims to Ford Parts and Service Division for reimbursement.

Motorcraft		PART NO.	BA-24	ADJ. PERIOD	40 MO.						
BATTERY LIMITED WARRANTY											
This Motorcraft battery is warranted by Ford Motor Co. to the original retail purchaser for the time shown above when it is used in a private passenger car or light truck. If the battery fails to hold a charge due to a defect in material or workmanship it should be returned to a Motorcraft retailer or wholesaler. THIS CARD AND YOUR DATED PURCHASE INVOICE ARE REQUIRED FOR WARRANTY REPLACEMENT.											
Name _____		Date Purchased _____ (Date Installed for Service Fleet)									
Address _____		City _____		State _____							
If a failure occurs, the owner will pay a percentage of the replacement cost based on the Motorcraft user exchange price, fleet price for fleet users, at the time of the adjustment. Shown below are the adjustment tables for privately owned passenger cars and light trucks and fleet, farm, marine and other commercial vehicles.											
Adjustment Table											
Mo. s After Purch	0-3	4-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50
Owner's Percentage Replacement Cost											
Priv. Pass. Car	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	97%
Fleet Commercial	0%	20%	40%	60%	80%	100%	*Farm, Marine & Other Commercial				
IMPORTANT: Further Warranty information is on the reverse side of this card. NOTE: Detach and KEEP with your purchase invoice											

PART NO.		BA-24
COLD CRANKING AMPS		340
RESERVE CAPACITY		80
DIST. BY FORD MOTOR CO. DEARBORN, MI 48121		
SERIAL NUMBER		A 080685

DANGER-EXPLOSIVE CAN CAUSE BLINDNESS OR SEVERE INJURY. PROTECT EYES. SPARKS, FLAMES, CIGARETTES CAN CAUSE EXPLOSION: TOOLS AND CABLE CLAMPS CAN CAUSE SPARKS. DO NOT USE WITHOUT INSTRUCTION. KEEP VENT CAPS TIGHT AND LEVEL.	
ACID-POISON CAUSES SEVERE BURNS. CONTAINS SULFURIC ACID. IN EVENT OF CONTACT, FLUSH WITH WATER AND SEE A DOCTOR.	
KEEP OUT OF REACH OF CHILDREN	

The Motorcraft Limited Battery Warranty does not cover:

1. Failure as a result of use in applications other than those recommended in Motorcraft catalogs
2. Damage to case, cover or terminals caused by abuse, negligence, freezing or improper installation
3. Cost of recharging or use of a rental battery
4. Labor to remove and replace battery in the vehicle
5. To the extent allowed by law, loss of time, inconvenience, loss of use of the vehicle or other consequential damages

THERE IS NO OTHER EXPRESS WARRANTY ON MOTORCRAFT BATTERIES. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THE WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES OR HOW LONG AN IMPLIED WARRANTY LASTS. SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Inquiries concerning this warranty should be directed to:

Warranty Administration, Ford Parts and Service Division
3000 Schaefer Road Dearborn, Michigan 48121

BATTERY SPECIFICATION CHART

BCI GROUP SIZE	MOTORCRAFT TESTED TOUGH PART NO.	PLATES PER CELL	COLD CRANKING AMPS (AT 0°F)	RESERVE CAPACITY (MINUTES)	MAXIMUM DIMENSIONS INCHES (MILLIMETERS)			APPROX. WEIGHT (LBS.)		ELECTRO- LYTE REQUIRED QTS.
					LENGTH	WIDTH	HEIGHT	DRY	WET	
TESTED TOUGH 60 SUPER HEAVY DUTY BATTERIES										
12 Volt Post Terminals										
22F	BX-22F	9	400	88	9-13/32 (238.7)	6-27/32 (173.8)	8-3/16 (207.5)	23	31	3.9
24	BX-24	12	525	120	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	29	41	4.7
24F	BX-24F	12	525	120	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	29	41	4.7
24F	BX-24FA	13	500	120	10-3/4 (273.1)	6-7/8 (174.2)	8-15/16 (227.1)	—	43	—
27	BX-27	12	540	126	12 (305.8)	6-27/32 (173.8)	8-21/32 (219.5)	31	44	5.8
27F	BX-27F	12	540	126	12-1/2 (316.7)	6-27/32 (173.8)	8-21/32 (219.5)	31	44	5.8
33	BX-33	22	1050	165	13-5/16 (338.1)	6-17/32 (158.0)	9-1/2 (241.3)	—	64	—
41	BX-41	15	525	92	11-17/32 (292.4)	6-7/8 (174.3)	6-27/32 (173.8)	—	36	—
58	BX-58A	13	450	90	9-7/16 (239.7)	7-7/32 (183.4)	6-31/32 (177.0)	—	36	—
58	BX-58B	13	475	90	9-7/16 (239.7)	7-7/32 (183.4)	6-31/32 (177.0)	—	32	—
63	BX-63	13	450	90	10-3/16 (257.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	40	—
64	BX-64	13	475	120	11-9/16 (295.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	46	—
64	BX-64A	15	535	120	11-9/16 (295.7)	6-3/8 (161.5)	8-7/8 (225.0)	—	46	—
65	BX-65	20	850	140	11-1/8 (282.5)	7-3/16 (182.6)	7-9/16 (192.1)	—	52	—
12 Volt Side Terminals										
71	BX-71	10	455	76	8 (203.0)	7-5/32 (181.6)	8-3/16 (207.6)	24	32	3.2
72	BX-72	11	490	102	9-1/16 (230)	7-1/16 (179)	8-1/4 (210)	27	—	3.2
74	BX-74	12	525	120	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	30	41	4.7
TESTED TOUGH 50 PREMIUM HEAVY DUTY BATTERIES										
12 Volt Post Terminals										
21	BR-21	8	340	63	8 (203.0)	6-25/32 (172.2)	8-19/32 (218.2)	20	28	3.4
22F	BR-22F	8	340	68	9-13/32 (238.8)	6-27/32 (173.8)	8-3/16 (207.5)	21	31	4.0
24	BR-24	10	455	100	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	26	38	5.0
24F	BR-24F	10	455	100	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	26	38	5.0
42	BR-42	11	385	71	9-21/32 (244.6)	6-7/8 (174.8)	6-21/32 (169.2)	22	29	3.1
42F	BR-42F	11	385	71	9-13/16 (248.9)	6-7/8 (174.8)	7-1/4 (183.9)	—	29	—
45	BR-45	12	450	80	9-13/32 (233.7)	5-15/32 (138.9)	8-3/4 (222.2)	24	32	3.2
56	BR-56	13	505	86	10 (253.5)	6-1/32 (152.9)	8-1/32 (211.1)	27	35	4.3
58	BR-58	11	410	75	9-7/16 (239.0)	7-7/32 (183.0)	6-31/32 (176.7)	—	29	—
61	BR-61	9	310	60	7-19/32 (192.2)	6-3/8 (161.5)	8-7/8 (225.0)	—	29	—
62	BR-62	11	380	75	8-15/16 (226.4)	6-3/8 (161.5)	8-7/8 (225)	—	34	—
12 Volt Side Terminals										
71	BR-71	9	400	78	8 (203.0)	7-5/32 (181.6)	8-3/16 (207.6)	22	30	3.3
74	BR-74	10	455	100	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	26	38	5.0
TESTED TOUGH 40 PREMIUM BATTERIES										
12 Volt Post Terminals										
24	BA-24	8	340	80	10-1/4 (260.6)	6-27/32 (173.8)	8-11/16 (220.2)	23	35	5.2
24F	BA-24F	8	340	80	10-3/4 (272.3)	6-27/32 (173.8)	8-11/16 (220.2)	23	35	5.2
12 Volt Side Terminals										
74	BA-74	8	340	80	10-1/4 (260.5)	7-1/4 (184.2)	8-11/32 (211.3)	23	36	5.2
TESTED TOUGH HEAVY DUTY COMMERCIAL BATTERIES										
12 Volt										
40	BH-40	21	885	260	20-3/4 (527.0)	8-3/4 (222.3)	9-9/16 (242.9)	79	—	9.4
80	BH-80	29	1155	390	20-3/4 (527.0)	11 (279.4)	9-9/16 (242.9)	102	—	13.4
27	BH-27A	16	715	150	12 (305.8)	6-27/32 (173.5)	8-21/32 (219.5)	—	50	—
29H/30H	BH-29H	16	655	162	13 (329.4)	6-25/32 (172.2)	9-3/8 (237.5)	—	56	—
31	BH-31A	16	655	162	13 (329.4)	6-25/32 (172.2)	9-3/8 (237.5)	—	56	—
6 Volt										
1	BH-1	15	545	155	8-15/16 (226.5)	6-27/32 (173.3)	8-25/32 (222.8)	23	—	4.6
2	BH-2	16	575	174	10-9/32 (260.9)	7 (177.7)	9-3/32 (230.9)	25	—	5.3
4	BH-4	23	775	260	12-5/8 (320.4)	7 (177.7)	9-1/8 (231.3)	34	—	6.5
7D	BH-7D	27	935	360	16-8/32 (411.3)	7-1/32 (178.2)	9 (228.6)	49	—	6.5
TESTED TOUGH FARM, COMMERCIAL & SPECIALTY BATTERIES										
12 Volt										
3EE	BH-3EE	11	420	98	19-9/32 (489.7)	4-9/32 (108.7)	8-21/32 (219.2)	35	—	4.6
3ET	BH-3ET	13	510	145	19-9/32 (489.7)	4-9/32 (108.7)	9-19/32 (243.1)	45	—	5.2
4DLT	BH-4DLT	29	815	265	20 (507.3)	8-3/16 (207.5)	8 (203.2)	83	—	7.7
22NF	BH-22NF	10	365	68	9-13/32 (233.8)	5-15/32 (138.9)	8-3/4 (222.3)	21	—	3.4
24	BH-24M	13	515	128	11-1/8 (282.5)	6-27/32 (173.5)	9-5/32 (232.4)	—	44	—
29NF	BH-29NF	13	425	100	13 (329.4)	5-1/2 (140.7)	8-15/16 (226.8)	28	—	5.0
U1	BH-U1	9	215	45	7-25/32 (197.3)	5-3/16 (131.7)	7-1/8 (180.2)	17	—	1.8
6 Volt										
3EH	BH-3EH	25	885	310	19-9/32 (489.7)	4-9/32 (108.7)	9-25/32 (248.4)	43	—	5.6
GC2	BH-GC2	19	100 Min. @ 75A	—	10-3/8 (265.3)	7-3/16 (182.3)	10-1/2 (266.7)	—	60	—

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MOTORCRAFT BATTERY USER EXCHANGE PRICE SCHEDULE

MAINTENANCE FREE BATTERIES

BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
				LIST	EXCH.
60 Months					
22F	400	85	MF-22FC	74.05	71.05
24C	500	115	MF-24C	86.05	83.05
24F	500	115	MF-24F	86.05	83.05
27C	560	140	MF-27C	88.05	85.05
27C	700	150	MF-27CA	113.05	110.05
27F	560	140	MF-27F	88.05	85.05
57	310	60	MF-57	84.35	81.35
58	380	75	MF-58	86.05	83.05
58	410	82	MF-58A	88.05	85.05
61	310	60	MF-61	82.35	79.35
62	380	75	MF-62	88.25	85.25
63	450	90	MF-63	92.55	89.55
64	475	120	MF-64	101.65	98.65
64	535	105	MF-64A	108.10	105.10
71	360	75	MF-71	79.85	76.85
72	430	95	MF-72	90.95	87.95

BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
				LIST	EXCH.
60 Months					
74	500	115	MF-74	88.05	85.05
48 Months					
21	330	68	MFR-21	72.00	69.00
22F	330	67	MFR-22FC	63.00	60.00
24C	410	75	MFR-24C	72.00	69.00
24F	410	75	MFR-24F	72.00	69.00
27C	485	95	MFR-27C	76.05	73.05
27F	485	95	MFR-27F	76.05	73.05
71	290	60	MFR-71	70.55	67.55
73	390	80	MFR-73	74.05	71.05
74	410	75	MFR-74	74.05	71.05
36 Months					
31	570	140	MF-31	162.35	—
31	700	170	MF-31A	166.05	—
31	700	170	MF-31AS	166.05	—
31	570	160	MF-31S	162.35	—

DRY CHARGE BATTERIES

Months of Adjusted Service	PREMIUM HEAVY DUTY					PREMIUM					STANDARD					
	60 Months					48 Months					36 Months					
	BCI GROUP	COLD CRANK- ING. AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANK- ING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANK- ING AMPS. (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
LIST					EXCH.	LIST				EXCH.	LIST				EXCH.	
	22F	370	93	G-22FC	70.00	67.00	310	75	R-22FC	58.00	55.00	230	52	GN-22FC	56.00	53.00
							370	93	R-22FCA	62.85	59.85					
	23						410	105	R-23	75.75	72.75					
	24C	470	130	G-24C	82.05	79.05	290	75	R-24C	64.00	61.00	230	52	GN-24C	56.00	53.00
							380	100	R-24CA	71.10	68.10					
							420	118	R-24CB	71.80	68.80					
	24F	470	130	G-24F	82.05	79.05	380	100	R-24F	64.00	61.00	230	52	GN-24F	56.00	53.00
							460	120	R-24FA	72.55	69.55					
	27C	530	159	G-27C	84.05	81.05	390	106	R-27C	70.00	67.00					
							475	138	R-27CA	83.25	80.25					
	27F	530	159	G-27F	84.05	81.05	450	125	R-27F	72.00	69.00					
							470	130	R-27FA	72.00	69.00					
	29HR						520	163	R-29HR	101.30	98.30					
	29NF						300	73	R-29NF	69.80	66.80	245	53	GN-29NF	63.70	61.70
	30H						580	163	R-30H95	131.15	128.15					
	32N						345	95	R-32N	75.75	72.75					
	43						395	120	R-43	70.00	67.00					
	54						310	60	R-54	69.80	66.80					
	55						380	75	R-55	74.40	71.40					
	56						450	90	R-56	80.05	77.05					
	60						310	83	R-60	74.40	71.40					
	64						475	120	R-64	85.90	82.90					
	74											300	63	GN-74	56.00	53.00

12 VOLT SIDE TERMINAL BATTERIES

Months of Adjusted Service	PREMIUM HEAVY DUTY				
	60 Months				
	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
LIST				EXCH.	
BCI GROUP					
72	370	93	G-72	78.05	75.05
74	470	130	G-74	84.05	81.05
77					

PREMIUM				
48 Months				
COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
			LIST	EXCH.
300	63	R-72	66.00	63.00
380	100	R-74	68.00	65.00
455	120	R-77	91.15	88.15

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6 VOLT BATTERIES PASSENGER CARS AND LIGHT TRUCKS

Months of Adjusted Service	PREMIUM					STANDARD				
	36 Months					36 Months				
	COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED		COLD CRANKING AMPS (@ 0°)	RES. CAP. (MINS.)	PART NO.	SUGGESTED	
				LIST	EXCH.				LIST	EXCH.
1	395	120	1HG	55.70	52.70	290	73	GN-1	47.15	45.15
2	475	150	2HG	62.95	59.95	345	93	GN-2	47.15	45.15
2E	485	160	2E	56.00	53.00	370	110	GN-2E	47.15	45.15
2L	395	120	2LG	55.70	52.70					
2N	495	170	2HN	56.00	53.00					

BATTERIES FOR IMPORT CARS

18	430	140	1LSH	55.70	52.70					
19L						365	120	1LS	50.00	47.00
22NF						245	52	10HN	63.25	60.25
42*	300	75	E42	73.80	70.80					
42*	350	95	E42F	75.75	72.75					

*48 Months of adjusted, service.

TRACTOR BATTERIES

BCI GROUP	COLD CRANKING AMPS (@ 0°)	RES. CAP.	PART NO.	SUGGESTED	
				LIST	EXCH.
1	440	140	1MS	56.75	—
	345	93	1MST	52.05	—
3EH	830	340	3EHA-172	109.05	—
3ET	425	120	3HE	96.05	—
4DLT	760	280	4DLT	167.85	—
4EH	880	420	4EH	123.95	—
17TF	395	120	17TF	120.05	—

SNOWMOBILE LIGHT UTILITY AND LAWNMOWER

BCI GROUP	COLD CRANKING AMPS	RES. CAP.	PART NO.	SUGGESTED	
				LIST	EXCH.
U1	160	23	LU-7	49.40	47.40
U1	200	32	LU-9	53.30	51.30
U1	200	32	SM-9	63.45	61.45

OFF-ROAD EQUIPMENT — HEAVY DUTY TRUCK AND BUS

1	545	185	R-1	61.40	58.40
2	650	235	R-2	84.05	81.05
3	650	235	R-3	90.05	—
4	720	280	R-4	107.35	—
	700	290	V-4	101.40	—

GOLF CART — INDUSTRIAL

	75 Amp Discharge (MIN.)				
GC2	90	200	2GC	101.40	—
	110	215	2GCA	107.70	—

DIESEL ENGINE STARTING BATTERIES

4D	700	290	4DA	205.30	—
5D	830	340	5DA	113.25	—
7D	900	430	7DA	127.55	—
8D	900	430	8DA	239.70	—
	900	430	8DAT	250.10	—
	1000	395	8DB	311.35	—
16TF	640	240	16TF	170.05	—

12 VOLT OUTBOARD MARINE

24	315	73	GN-24M	72.10	74.10
	470	135	G-24M	95.40	92.40
	390	100	R-24M	84.55	81.55

ACCESSORIES AND ELECTROLYTE

PART NUMBER	DESCRIPTION	PACKAGE QUANTITY	LIST
BB-14*	QUIK-PAK Electrolyte 5 Gallon (with hose & clamp)	1	9.20
BB-16	Electrolyte 1.54 Gallon (with Hose)	1	4.40
BB-40	Tiltite Spillproof Battery Caps	24	1.45 List Each

*Minimum Contents 4.95 Gallons

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(REFER TO SEPARATE TABLE FOR O.E. PRO RATA ADJUSTMENT)

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
E-42	48	1.54	24	3.08
E-42F	48	1.58	24	3.16
G-22FC	60	1.17	30	2.33
G-24C	60	1.37	30	2.74
G-24F	60	1.37	30	2.74
G-24M	—	—	24	3.98
G-27C	60	1.40	30	2.80
G-27F	60	1.40	30	2.80
G-72	60	1.30	30	2.60
G-74	60	1.40	30	2.80
GN-1	36	1.31	18	2.62
GN-2	36	1.31	18	2.62
GN-2E	36	1.31	18	2.62
GN-3EE	36	1.73	18	3.46
GN-22FC	36	1.56	18	3.11
GN-24C	36	1.56	18	3.11
GN-24F	36	1.56	18	3.11
GN-24M	—	—	12	6.43
GN-29NF	36	1.77	18	3.54
GN-74	36	1.56	18	3.11
LU-7	—	—	12	4.12
LU-9	—	—	12	4.44
MFR-21	48	1.50	24	3.00
MF-22FC	60	1.23	30	2.47
MFR-22FC	48	1.31	24	2.63
MF-24C	60	1.43	30	2.87
MFR-24C	48	1.50	24	3.00
MF-24F	60	1.43	30	2.87
MFR-24F	48	1.50	24	3.00
MF-27C	60	1.47	30	2.94
MF-27CA	60	1.88	30	3.77
MFR-27C	48	1.58	24	3.17
MF-27F	60	1.47	30	2.94
MFR-27F	48	1.58	24	3.17
MF-31	—	—	36	4.51
MF-31A	—	—	36	3.14
MF-31AS	—	—	36	3.14
MF-31S	—	—	36	4.51
MF-57	60	1.41	30	2.81
MF-58	60	1.43	30	2.87
MF-58A	60	1.47	30	2.94
MF-61	60	1.37	30	2.75
MF-62	60	1.47	30	2.94
MF-63	60	1.54	45	3.09
MF-64	60	1.69	30	3.39
MF-64A	60	1.80	30	3.60
MF-71	60	1.33	30	2.66
MFR-71	48	1.47	24	2.94
MF-72	60	1.52	30	3.03
MFR-73	48	1.54	24	3.09
MF-74	60	1.47	30	2.94
MFR-74	48	1.54	24	3.09
R-1	—	—	24	2.56
R-2	—	—	24	3.50
R-3	—	—	36	1.76
R-4	—	—	36	2.98
R-4R-15(8V)	—	—	24	4.61
R-22FC	48	1.21	24	2.42
R-22FCA	48	1.31	24	2.62
R-22FCB	48	1.49	24	2.98
R-22HF	48	1.49	24	2.98
R-22HFA	48	1.50	24	3.00

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
R-23	48	1.58	24	3.16
R-24C	48	1.33	24	2.67
R-24CA	48	1.48	24	2.96
R-24CB	48	1.50	24	2.99
R-24F	48	1.33	24	2.67
R-24FA	48	1.51	24	3.02
R-24FB	48	1.49	24	2.98
R-24M	—	—	18	4.70
R-27C	48	1.46	24	2.92
R-27CA	48	1.73	24	3.47
R-27F	48	1.50	24	3.00
R-27FA	48	1.50	24	3.00
R-27FB	48	1.61	24	3.23
R-29HR	48	2.11	24	4.22
R-29NF	48	1.45	24	2.91
R-30H-95	48	2.73	24	5.46
R-32N	48	1.58	24	3.16
R-43	48	1.46	24	2.92
R-53	48	1.45	24	2.91
R-54	48	1.45	24	2.91
R-55	48	1.55	24	3.10
R-56	48	1.67	24	3.34
R-60	48	1.55	24	3.10
R-64	48	1.79	24	3.58
R-72	48	1.38	24	2.75
R-74	48	1.42	24	2.83
R-74A	48	1.75	24	3.50
R-77	48	1.90	24	3.80
SM-9	—	—	12	5.29
V-3	—	—	24	3.71
V-4	—	—	24	4.23
1HG	36	1.55	18	3.09
1LS	36	1.39	18	2.78
1LSH	36	1.55	18	3.09
1MS	—	—	24	2.36
1MST	—	—	24	2.17
2E	36	1.56	18	3.11
2GC	—	—	18	5.63
2GCA	—	—	24	4.49
2HG	36	1.74	18	3.49
2HN	36	1.56	18	3.11
2LG	36	1.55	18	3.09
3EE	36	1.90	18	3.79
3EHA-172	—	—	24	4.54
3HE	—	—	24	4.00
4DA	—	—	24	8.55
4DLT	—	—	36	4.66
4EH	—	—	36	3.44
5DA	—	—	24	4.72
6DA	—	—	24	9.08
7DA	—	—	24	5.31
8DA	—	—	24	9.99
8DAT	—	—	24	7.21
8DB	—	—	24	12.97
10HN	36	1.76	18	3.51
16TF	—	—	24	4.94
17TF	—	—	36	3.33

NOTE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS A		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
E-42F	36	2.10	24	3.08
G-24F	36	2.28	24	3.42
MF-22FC	36	2.06	24	3.09
MF-24F	36	2.39	24	3.59
MF-27F	36	2.45	24	3.67
MF-31	—	—	36	4.51
MF-31A	—	—	36	4.61
MF-31AS	—	—	36	4.61
MF-31S	—	—	36	4.51
MF-57	36	2.34	24	3.51
MF-58	36	2.39	24	3.59
MF-58A	36	2.39	24	3.59

MOTORCRAFT TYPE NUMBER	PASSENGER CARS AND LIGHT TRUCKS A		TRUCKS ONE TON AND OVER, TAXIS, POLICE CARS, BUSES, TRACTORS, MARINE AND ALL OFF-HIGHWAY APPLICATIONS	
	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH	MONTHS OF ADJUSTED SERVICE	OWNER'S COST PER MONTH
MF-61	36	2.29	24	3.43
MF-62	36	2.45	24	3.68
MF-63	36	2.57	24	3.86
MF-64	36	2.82	24	4.23
MF-64A	36	3.00	24	4.50
R-24F	36	1.78	24	2.67
R-24FA	36	2.01	24	3.02
R-27F	36	2.00	24	3.00
R-27FA	36	2.00	24	3.00
R-54	36	1.94	24	2.91
R-55	36	2.07	24	3.10
R-56	36	2.22	24	3.34
R-64	36	2.39	24	3.58

NOTICE: THE BATTERIES IN THE FOLLOWING SECTION HAVE BEEN REPLACED BY THE TESTED TOUGH BATTERY LINE. PRICES AND SPECIFICATIONS ARE PROVIDED HERE FOR REFERENCE ONLY.

MAINTENANCE FREE BATTERY SPECIFICATION CHART

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			WEIGHT (LBS.)
		LENGTH	WIDTH	HEIGHT	
MF-22FC	12	9-1/2	6-13/16	8-15/32	38.3
MFR-22FC	12	9-1/2	6-27/32	8-15/32	29
MF-24C	12	10-9/32	6-13/16	9-1/16	46.8
MFR-24C	12	10-9/32	6-27/32	9-1/16	35
MF-24F	12	10-3/4	6-13/16	9-1/16	46.8
MFR-24F	12	10-3/4	6-27/32	9-1/16	35
MF-27C	12	12-1/16	6-13/16	9-1/16	55.8
MFR-27C	12	12-1/16	6-27/32	9-1/16	41
MF-27F	12	12-1/2	6-13/16	9-1/16	55.9
MFR-27F	12	12-1/32	6-27/32	9-1/16	41
MF-31	12	13-3/32	7-1/8	9-3/4	65.3
MF-31A	12	13-3/32	7-1/8	9-3/4	73.8
MF-31AS	12	13-3/32	7-1/8	9-13/16	73.8
MF-31S	12	13-3/32	7-1/8	9-13/16	65.3

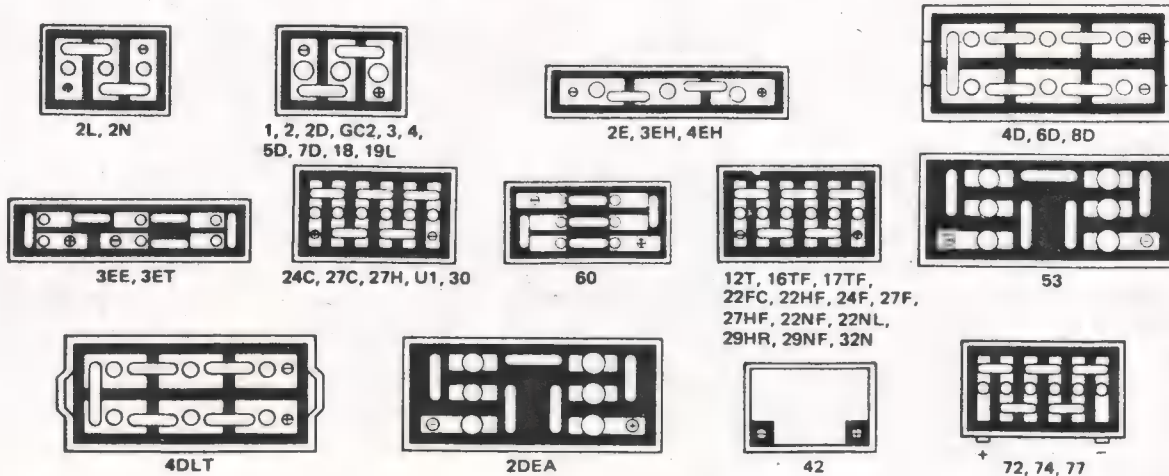
BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			WEIGHT (LBS.)
		LENGTH	WIDTH	HEIGHT	
MF-57	12	8	7-3/16	7	26.8
MF-58	12	9-7/16	7-13/16	7	32.7
MF-58A	12	9-7/16	7-3/16	7	34.1
MF-61	12	7-9/16	6-7/16	8-7/8	27.4
MF-62	12	8-15/16	6-7/16	8-7/8	33.4
MF-63	12	10-3/16	6-7/16	8-7/8	38.4
MF-64	12	11-9/16	6-5/16	8-7/8	43.2
MF-64A	12	11-9/16	6-5/16	8-7/8	43.3
MFR-71	12	8-5/32	7-5/32	8-1/8	29
MF-72	12	9-1/16	7-5/32	7-21/32	40.3
MFR-73	12	8-5/16	7-5/32	8-1/8	33
MF-74	12	10-9/32	7-5/32	8-9/32	46.8
MFR-74	12	10-9/32	7-5/32	8-9/32	35

DRY CHARGE BATTERY SPECIFICATION CHART

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			APPX. QTS. REQ'D.
		LENGTH	WIDTH	HEIGHT	
E42	12	9-13/16	6-7/8	6-29/32	3-1/4
E-42F	12	9-13/16	6-7/8	7-1/4	3-1/4
G-22FC	12	9-7/16	6-7/8	8-5/16	4
G-24C	12	10-9/32	6-27/32	8-15/16	5-1/2
G-24F	12	10-25/32	6-27/32	8-13/16	5-2/5
G-24M	12	10-9/32	6-13/16	9-7/8	4-1/2
G-27C	12	12-1/16	6-27/32	8-13/16	6-1/2
G-27F	12	12-17/32	6-27/32	8-13/16	6-1/2
G-72	12	9-7/16	7-9/32	8-1/4	4-1/2
G-74	12	10-9/32	7-9/32	8-3/4	5-1/2
GN-1	6	9-1/16	7-1/16	8-15/16	4-1/2
GN-2	6	10-5/16	7-1/16	8-15/16	5-1/4
GN-2E	6	19-1/4	4	9-1/32	5-1/2
GN-22FC	12	9-1/2	6-13/16	8-5/16	3-3/4
GN-24C	12	10-1/4	6-13/16	8-15/16	5-1/4
GN-24F	12	10-3/4	6-13/16	8-15/16	5
GN-24M	12	10-9/32	6-13/16	9-7/8	4-1/2
GN-29NF	12	13	5-1/2	9-5/32	4-3/4
GN-74	12	10-9/32	7-5/32	8-3/4	6-1/4
LU-7	12	7-3/4	5-5/32	7-9/32	2
LU-9	12	7-3/4	5-5/32	7-9/32	2
R-1	6	9-1/16	7-1/16	8-15/16	4-1/2
R-2	6	10-5/16	7-1/16	9-9/32	5-1/2
R-3	6	11-1/2	7-1/16	9-9/32	6-1/4
R-4	6	12-11/16	7-1/16	9-9/32	7
R-22FC	12	9-7/16	6-7/8	8-5/16	3-3/4
R-22FCA	12	9-7/16	6-7/8	8-5/16	4-1/2
R-22HF	12	9-7/16	6-7/8	8-13/16	4-1/4
R-23	12	10-3/4	6-7/8	8-7/16	4
R-24C	12	10-9/32	6-27/32	8-13/16	5
R-24CA	12	10-9/32	6-27/32	8-13/16	5
R-24CB	12	10-9/32	6-27/32	8-13/16	5-1/5
R-24F	12	10-25/32	6-27/32	8-13/16	5
R-24FA	12	10-25/32	6-27/32	8-13/16	5
R-24M	12	10-9/32	6-13/16	9-7/8	6-1/4
R-27C	12	12-1/16	6-27/32	8-13/16	5-3/4
R-27CA	12	12-1/16	6-27/32	8-13/16	5-3/5
R-27F	12	12-17/32	6-27/32	8-13/16	5-1/4

BATTERY TYPE	VOLTS	OVERALL DIMENSIONS (INCHES)			APPX. QTS. REQ'D.
		LENGTH	WIDTH	HEIGHT	
R-27FA	12	12-17/32	6-27/32	8-13/16	5
R-29HR	12	13-1/8	6-13/16	9-3/16	6-3/4
R-29NF	12	13	5-1/2	9-5/32	5
R-30H-95	12	13-17/32	6-17/32	9-9/32	6-1/2
R-32N	12	14-1/4	5-1/2	9-5/32	5-3/4
R-43	12	13-3/16	6-7/8	8-1/16	6
R-54	12	7-11/32	6-1/32	8-3/8	4
R-55	12	8-19/32	6-1/32	8-3/8	5
R-56	12	10-1/32	6-1/32	8-3/8	5
R-60	12	13-1/16	6-1/4	8-15/16	6
R-64	12	11-11/16	6-5/16	8-14/16	6
R-72	12	9-7/16	7-9/32	8-1/4	4-1/2
R-74	12	10-9/32	7-9/32	8-3/4	3-3/4
R-77	12	12-1/16	7-9/32	8-3/4	5
V-4	6	12-11/16	7-1/16	9-9/32	7
1HG	6	9-1/16	7-1/16	8-15/16	4-1/4
1LS	6	8-3/8	6-3/4	7-13/32	2-3/4
1LSH	6	7-13/16	6-29/32	8-19/32	3
1MS	6	9-1/16	7-1/16	8-15/16	4-1/4
1MST	6	9-1/16	7-1/16	8-15/16	4-1/2
2GC	6	10-3/8	7-1/8	11-19/32	6
2GCA	6	10-3/8	7-1/8	11-19/32	6
2HG	6	10-5/16	7-1/16	9-9/32	5-1/2
2HN	6	10	5-1/2	9-1/16	3-3/4
2LG	6	10-5/16	7-1/16	8-3/8	4-3/4
3EE	12	19-5/16	4-3/8	8-25/32	5-1/2
3EHA-172	6	19-5/16	4-11/32	9-25/32	6
3HE	12	19-5/16	4-3/8	9-23/32	6
4DA	12	20-3/4	8-3/4	9-13/16	11-1/2
4DLT	12	20	8-3/16	8-29/32	10
5DA	6	13-1/2	7-1/8	9-1/4	6
7DA	6	16-1/4	7-1/8	9-1/4	7-1/4
8DA	12	20-3/4	11-13/16	9-13/16	15-1/2
8DAT	12	22-1/4	11	9-13/16	15-1/2
8DB	12	20-3/4	11	9-23/32	15-1/2
10HN	12	9-7/16	5-1/2	9-61/64	3-1/4
16TF	12	16-17/32	7-1/8	11-5/32	10
17TF	12	17-1/16	6-7/8	8-29/32	7

BATTERY TERMINAL POSITION AND CELL LAYOUTS



MOTORCRAFT BATTERY LIMITED WARRANTY

FOR OTHER THAN "TESTED TOUGH" BATTERIES

The label shown below will be attached to Motorcraft batteries shipped after April 1, 1982. Batteries with this label are warranted by Ford Motor Company to the consumer. The terms and conditions of the warranty are shown on the label.

When a Motorcraft battery is purchased, it is important that the tear-off portion of the label is removed by the owner or installer. The owner's name, address and date of purchase are to be filled in and the card should be attached to the owner's proof-of-purchase invoice and placed in the vehicle glove compartment. Both items must be furnished in case of subsequent battery failure.

CLAIM HANDLING PROCEDURES FOR DEALERS, WHOLESALERS AND FLEETS

Batteries presented for warranty must be properly tested and recharged if necessary to determine whether they are, in fact, serviceable. Batteries that are discharged-only or that have been stored without use or recharging for extended periods are not eligible for replacement under warranty.

When a battery is found to be not serviceable, the time in service is to be determined by examination of the owner's warranty card and proof-of-purchase invoice. Qualified Fleets are required to enter the date of installation. Purchase invoices are not required.

Depending on the time in service, the owner is to receive as a replacement an equivalent Motorcraft battery on a gratis (no cost) or pro rata basis as described on the label.

Dealers, Wholesalers and Fleets are to submit supporting documents to Motorcraft Warehouse Distributors, National Accounts and Special Market Accounts to obtain warranty on Motorcraft batteries. These Motorcraft accounts will in turn submit claims to Ford Parts and Service Division for reimbursement. When transactions between different levels of distribution occur, internal invoices or memorandums should be prepared using information from the tear-off portion of the warranty label and proof-of-purchase invoice.

Motorcraft		PART NO.	MFR-27F	ADJ. PERIOD	48
BATTERY LIMITED WARRANTY					
This Motorcraft battery is warranted by Ford Motor Co. to the original retail purchaser for the time shown above when it is used in a private passenger car or light truck. If the battery fails to hold a charge due to a defect in material or workmanship it should be returned to a Motorcraft retailer or wholesaler. THIS CARD AND YOUR DATED PURCHASE INVOICE ARE REQUIRED FOR WARRANTY REPLACEMENT.					
Name _____		Date Purchased _____ (Date installed for Fleet Service)			
Address _____		City _____		State _____	
If failure occurs within the first 3 months from date of purchase, the battery will be replaced with an equivalent Motorcraft battery free of charge. After this period, the cost of replacement will be prorated on the basis of a monthly charge for the number of months after purchase. For privately owned cars and light trucks, the monthly cost is based on the current Motorcraft suggested list price at the time of adjustment. Fleet, Farm, Marine and other commercial users are covered by specific application and adjustment periods published in Motorcraft Fleet and consumer price lists.					
IMPORTANT: Further Warranty information is on the reverse side of this card. DETACH AND KEEP WITH YOUR PURCHASE INVOICE					
					PLANT CODE SERIAL NUMBER Nº 314134

Motorcraft	PART NO.	MFR-27F
	COLD CRANKING AMPS	485
	RESERVE CAPACITY	95
	DIST. BY FORD MOTOR CO. DEARBORN, MICH. 48121	
	SERIAL NUMBER Nº 314134	

POISON/DANGER - CAUSES SEVERE BURNS
Contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL - Flush with water. INTERNAL - Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. Eyes: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases: Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.
KEEP OUT OF REACH OF CHILDREN

The Motorcraft Limited Battery Warranty does not cover:

1. Failure as a result of use in applications other than those recommended in Motorcraft catalogs
2. Damage to case, cover or terminals caused by abuse, negligence, freezing or improper installation
3. Cost of recharging or use of a rental battery
4. Labor to remove and replace battery in the vehicle
5. To the extent allowed by law, loss of time, inconvenience, loss of use of the vehicle or other consequential damages

THERE IS NO OTHER EXPRESS WARRANTY ON MOTORCRAFT BATTERIES.
ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THE WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES OR HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
Inquiries concerning this warranty should be directed to:

Warranty Administration, Ford Parts and Service Division
3000 Schaefer Road Dearborn, Michigan 48126

(Reverse Side of Warranty Card)

Motorcraft QUALITY PARTS

FOR ALL MAKES OF CARS AND TRUCKS

MOTORCRAFT INTERCHANGE

Tested Tough Line to Previous Line

TESTED TOUGH BATTERY NO.	REPLACES
BA-24	R-24C, GN-24C
BA-24F	GN-24F
BA-74	GN-74
BH-1	R-1, 1MS, 1HG, GN-1
BH-2	R-2, 2HG, GN-2
BH-3EE	3EE
BH-3EH	3EHA-172
BH-3ET	3HE
BH-4	R-4, V-4
BH-4D	4DA
BH-4DLT	4DLT
BH-7D	7DA
BH-8D	8DA, 8DB
BH-22NF	10HN
BH-24M*	G-24M, R-24CB
BH-27A	MF-27CA
BH-29H	R30H-95, MF-31, MF-31A
BH-29NF	R-29NF
BH-31A	MF-31S, MF-31AS
BH-GC2	2GC, 2GCA
BH-U1	LU-7, LU-9
BR-21	MFR-21
BR-22F	MFR-22FC, GN-22FC, R-22FC
BR-24	MFR-24C, R-24CA
BR-24F	MFR-24F, R-24F, R-23
BR-42	E-42
BR-42F	E-42F
BR-45	NONE-NEW
BR-56	R-54, R-55, R-56
BR-61	MF-61
BR-62	MF-62
BR-71	MF-71, MFR-71, R-72
BR-74	R-74, MFR-74
BX-22F	MF-22FC, G-22FC, R-22FCA
BX-24	MF-24C, G-24C
BX-24F	MF-24F, G-24F, R-24FA
BX-24FA	MF-24F
BX-27	R-27C, MF-27C, MFR-27C, G-27C
BX-27F	G-27F, MF-27F, MFR-27F, R-27F, R-27FA, R-29HR
BX-33	NONE-NEW
BX-41	NONE-NEW
BX-58B	MF-57, MF-58, MF-58A
BX-63	MF-63
BX-64	MF-64, R-64
BX-64A	MF-64A, MF-64, R-64
BX-65	NONE-NEW
BX-71	MFR-73, G-72
BX-74	MF-74, G-74, R-77

*Check terminal height to hood clearance.

2.
(Front Page)

CITY OF FORT WAYNE

DEPARTMENT OF PURCHASING
ONE MAIN STREET - ROOM 940
FORT WAYNE, INDIANA 46802

BID REFERENCE # 776

DATE JANUARY 20, 1986

DUE DATE FEBRUARY 6, 1986

Department receiving bid items CITY UTILITIES GARAGE
1705 S. LAFAYETTE STREET
FORT WAYNE, INDIANA 46803

Bid Bond Required	NO <u> </u>	YES <u> X </u>	AMOUNT <u>\$500.00</u>
Performance Bond Required	NO <u> X </u>	YES <u> </u>	AMOUNT <u> </u>
Affirmative Action	ON FILE <u> X </u>	ATTACHED <u> </u>	

Prompt payment discounts will be allowed as follows: Net 10th Prox
if paid within -- days.

The City of Fort Wayne is exempt from Federal excise and Indiana State Sale Tax. The City's Indiana Sales Tax Exemption Certificate number is 356-001-255 0013, prices should not include these taxes.

The execution hereof by the bidder is acceptance of all terms and conditions herein and in that regard the bidder agrees to be bound by same and be bound to the amount of his/her bid for a period of sixty (60) days.

Piqua Battery, Inc.
Name of Company
by J.R.Harris/ *J.R. Harris* Agent
(signature)
Address 609 Spring St.
City Piqua, OH 45356

SCHEDULE

The contractor agrees to furnish at his/her/its own cost all labor, insurance, materials, equipment, and power for the completed delivery of the supplies.

All supplies and deliveries of supplies will be in accordance with: the IFB, this contract and any applicable plans, specifications, and drawings for a TOTAL PRICE of \$ _____. (If unit prices are applicable, the contractor agrees to perform for those unit prices as set forth in the Schedule of Unit Prices attached hereto.) The supplies shall be delivered as follows:

AS NEEDED

/ / 2. Liquidated Damages Provision. (This clause shall be applicable to this contract only if the box contains a checkmark or "X".)

It is hereby agreed by and between the City of Fort Wayne and contractor that time is of the essence of this agreement, and the contractor agrees that it will deliver the supplies as herein called for on or before the times spelled out in the contract. The parties agree that it is a business and governmental necessity that the supplies be delivered by these dates. The parties agree that in the event the supplies are not delivered by these dates, that it will be difficult or impossible to make an accurate determination of the damages that will be incurred by the City of Fort Wayne, and therefore provide for liquidated damages in the sum of \$ _____ per day as a reasonable estimate as to the damages which would be incurred by the City of Fort Wayne. The parties further agree that causes beyond the control of the contractor may delay delivery of supplies. Therefore, the parties agree that delays in the dates for delivery of supplies beyond the control of the contractor shall not result in liquidated damages.

Delays beyond the control of the contractor can include but are not restricted to: Acts of God or of the public enemy, acts of the United States Government, State of Indiana Government and City of Fort Wayne in either its sovereign or contractual capacity, fires, floods, epidemics, guarantee restrictions, strikes, freight embargoes, and unusually severe weather; but, in every case, the failure to perform must be beyond control and without the fault or negligence of the contractor. If the

SPECIFICATIONS FOR 1986 REQUIREMENTS FOR BATTERIES

BIDDER SHALL INCLUDE THE COMPLETE BATTERY SPECIFICATION DATA SHEET, WHICH INCLUDES BCI GROUP NO., VENDOR GROUP NO., WARRANTY, PLATES PER CELL, AMP RATING AND COLD CRANKING AMPS.

THE PRICE LISTING WOULD BE THAT LISTING SUCH AS "GSA PRICE LIST", OR THE EQUIVALENT. SHOULD THE VENDOR EXTEND ADDITIONAL PRICE DISCOUNTS ABOVE THOSE STATED ON THE PRICE LIST, THIS MUST ALSO BE INCLUDED.

BIDDER SHALL STATE IF THE BATTERIES ARE FILLED OR UNFILLED.

TRADE-INS ON BATTERIES MUST ALSO BE INCLUDED IN THE BID.

THIS BID SHALL BE VALID FROM THE DATE OF AWARD, THROUGH FEBRUARY, 1987.

BIDDER SHALL HAVE THE RIGHT TO INCREASE, OR DECREASE, THE CONTRACT UNIT PRICE IN AN AMOUNT EQUAL TO ANY "CHANGES" IN THE ABOVE REFERENCED PRICE LISTS DURING THE PERIOD OF THIS CONTRACT.

ANY INCREASE OR DECREASE IN COSTS RELATIVE TO THE PRICE LISTS SHALL BE SUBMITTED TO THE CITY OF FORT WAYNE PURCHASING DEPARTMENT UPON RECEIPT BY BIDDER, AND WILL BECOME EFFECTIVE UPON VERIFICATION OF THE DIRECTOR OF PURCHASES.

STATE DISCOUNT ABOVE THAT STATED ON PRICE LIST: -- 2

OPTION RENEWAL

BY MUTUAL AGREEMENT BETWEEN THE CITY OF FORT WAYNE AND THE SUPPLIER, THE CONTRACT PERIOD MAY BE EXTENDED FOR AN ADDITIONAL PERIOD NOT TO EXCEED ONE (1) YEAR. HOWEVER, THE AGREEMENT TO EXTEND MUST BE COMPLETED IN WRITING NOT LESS THAN FIFTEEN (15) DAYS PRIOR TO EXPIRATION DATE. THE CONTRACT MAY BE EXTENDED ONLY AT THE SAME PRICE AND UNDER THE SAME CONDITIONS GOVERNING THE ORIGINAL CONTRACT.

CERTIFICATION OF BIDDER/VENDOR

The undersigned, on behalf of Piqua Battery, Inc.
_____, does hereby make the following representations
to the City of Fort Wayne, Indiana.

WHEREAS, it is acknowledged that the Common Council
of the City of Fort Wayne, Indiana, has passed an ordinance con-
demning the apartheid policies of the country of South Africa;

WHEREAS, Council's ordinance requires that all persons,
firms or corporations submitting bids to the City, for goods and
services, certify, as part of the bid, that such entity does not
support the policies of apartheid in South Africa.

The undersigned states, on behalf of Piqua Battery, Inc.
_____, that Piqua Battery, Inc.
does not support or endorse the policy of apartheid in South Africa.

IN WITNESS WHEREOF, this Certification has been signed
this 3rd day of February, 1986.

Piqua Battery, Inc.
(Name of Bidder/Vendor)

C. Edward Brush/ C Edward Brush
(Name and Title of Person Signing)
General Manager

BID, OFFER OR PROPOSAL

on

MATERIAL OR MATERIALS, EQUIPMENT, GOODS OR SUPPLIES

City of Fort Wayne

Indiana

February 3

1986

ToDepartment of Purchases.....

State name official position and municipality

Pursuant to notices given, the undersigned proposes to furnish the material or materials, equipment, goods or supplies as per said notices and specifications now on file in the office of.....Piqua Battery, Inc.

J.R. Harris/

state name

official position

Piqua, Ohio

and municipality

and as per copy thereof, hereto attached, or as described herein for the following amounts:

(State the class or item number or an exact description of the material or materials, equipment, goods or supplies to be furnished and amount of bid on each article.)

Class or Item	Quantity	Unit	Quality — Description	Unit Price	Amount
			1986 Requirements for Storage Batteries for the City of Fort Wayne, City Utilities Garage	(SLI) Current Price List Enclosed	

IF MORE SPACE IS NEEDED—ATTACH SEPARATE SHEET



CRANKER

City of Fort Wayne
Price Sheet

November 15, 1985

Effective 2-6-86 thru 2-5-87

Part Number	Price
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AUTOMOTIVE AND COMMERCIAL 12 VOLT

21-37	33.87
22F-39	32.64
22F-31	25.60
24-65	46.43
24-47	35.73
24-39	30.52
24-32	27.02
24-25	23.43
24F-65	46.43
24F-47	35.73
24F-39	30.52
24F-32	27.02
24F-25	23.43
26-40	33.97
27-56	40.80
27-49	36.34
27F-56	40.80
27F-49	36.34
29NF-37	31.99
41-65	42.96
41-53	41.90
42-37	31.37
42-33	30.32
42F-35	40.30
43-40	51.81
45-43	36.40
45-27	35.36
46-46	35.34
48-53	
49-75	70.00
49-61	59.25
55-45	34.40
55-38	33.05
56-45	37.52
56-37	34.96
58-43	35.27
60-39	38.12
62-44	37.17
62-40	35.46
63-48	38.77

Part Number	Price
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**AUTOMOTIVE AND COMMERCIAL 12 VOLT
(SIDE TERMINAL)**

70-44	37.44
70-40	34.15
71-45	35.54
71-39	33.86
71-33	31.89
73-48	41.07
73-40	34.55
74-65	47.92
74-50	38.99
74-39	31.75
74-29	28.41
78-55	48.29

ELECTRIC POWER - DEEP CYCLE

EP2-92	47.96
EP2-106	51.20
EP-U1	31.58
EP-22NF	37.31
EP-24	44.60
EP-27	50.57

ANTIQUE AUTO TYPES 6 & 12 VOLT

1-43	24.80
2L-40	36.86
2N-43	42.98
2E-49	31.39
19L-40	23.35
3EE-33	35.27
53-29	34.32

SPECIAL APPLICATION

8V1-11	38.03
8V2-47	48.23
6TN	91.93

MARINE SERVICE 12 VOLT

24M-50	39.33
24M-41	33.80

Prices listed are for "filled" batteries.

Also, deduct 40¢ per battery trade-in value.

J.R. Harris

signature

Part Number	Price
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**TRUCK, TRACTOR, BUS AND
DIESEL - 12 VOLT**

30H-58	50.97
30H-46	45.74
4D-80	88.24
4D-70	87.32
8D-98	100.49
8D-85	99.16
8DB	108.74
3ET-44	44.84
4DLT-76	77.37
16TF-64	81.07
17TF-49	55.23
31-70	63.50
31-70S	63.50
C31-63	53.58
C31-63S	53.58
29H-63	53.41
31-63S	53.41
29H-51	50.41
31-51S	50.41

COMMERCIAL 6 VOLT

1-52	28.21
2-60	31.28
3-65	40.34
4-98	45.06
4-83	44.44
4-78	40.70
4-65	37.54
5D-83	52.15
7D-88	56.45
3EH-83	45.70
4EH-88	48.00

**GARDEN TRACTOR AND LIGHT UTILITY
12 VOLT**

U1-20L	23.04
U1-20R	23.04
U1-16L	22.93
LM-24L	32.60
LM-24R	32.60
LM-5L	27.04
22NF-25	29.06
22F-21	21.79



CRANKER

Battery Specifications

BCI GROUP SIZE	BATTERY PART NUMBER	BATTERY WARRANTY MONTHS	ELECTRICAL VALUES		PLATES PER CELL	OVERALL DIMENSIONS			APPROX WEIGHT
			Cranking Amperes @ 0°F	Reserve Capacity		Length	Width	Height	
AUTOMOTIVE AND COMMERCIAL - 12 VOLT									
21	21-37	48	350	60	8	8 5/32	6 13/16	8 13/16	29
22F	22F-39	60	430	100	10	9 1/2	6 25/32	8 3/32	38
	22F-31	48	380	70	9	9 1/2	6 25/32	8 3/32	35
24	24-65	72	650	130	15	10 7/32	6 25/32	8 19/32	46
	24-47	60	540	125	12	10 7/32	6 25/32	8 19/32	45
	24-39	48	460	90	10	10 7/32	6 25/32	8 19/32	42
	24-32	36	380	70	8	10 7/32	6 25/32	8 19/32	39
	24-25	18	325	60	7	10 7/32	6 25/32	8 19/32	36
24F	24F-65	72	650	130	15	10 23/32	6 25/32	8 19/32	46
	24F-47	60	540	125	12	10 23/32	6 25/32	8 19/32	45
	24F-39	48	460	90	10	10 23/32	6 25/32	8 19/32	42
	24F-32	36	380	70	8	10 23/32	6 25/32	8 19/32	39
	24F-25	18	325	60	7	10 23/32	6 25/32	8 19/32	36
26	26-40	48	400	100	10	8 3/16	6 13/16	7 3/4	29
27	27-56	60	600	135	14	12	6 25/32	8 19/32	52
	27-49	48	540	120	12	12	6 25/32	8 19/32	49
27F	27F-56	60	600	135	14	12 15/32	6 25/32	8 19/32	52
	27F-49	48	540	120	12	12 15/32	6 25/32	8 19/32	49
29NF	29NF-37	36	300	85	11	13	5 1/2	8 11/16	42
41	41-65	60	650	120	11	11 9/16	6 7/8	6 7/8	43
	41-53	48	550	100	15	11 9/16	6 7/8	6 7/8	40
42	42-37	48	410	75	11	9 5/8	6 27/32	6 3/4	35
	42-33	36	340	60	9	9 5/8	6 27/32	6 3/4	34
42F	42F-35	48	385	75	11	9 13/16	6 7/8	7 1/4	32
43	43-40	36	425	110	13	13 1/8	6 15/16	8	49
45	45-43	48	440	80	11	9 13/32	5 1/2	8 15/16	37
	45-27	36	345	70	10	9 13/32	5 1/2	8 15/16	31
46	46-46	48	460	90	10	10 3/4	6 7/8	9	41
48	48-53	48	525	100	15	12 1/16	6 7/8	7 9/16	38
49	49-75	60	745	145	20	15	6 7/8	7 1/2	54
	49-61	48	670	150	17	15	6 7/8	7 1/2	52
55	55-45	48	440	80	12	8 1/2	6	8 3/8	35
	55-38	36	400	75	10	8 1/2	6	8 3/8	34
56	56-45	48	510	85	13	10	6	8 5/16	34
	56-37	36	385	70	10	10	6	8 5/16	31
58	58-43	48	450	80	13	9 7/16	7 1/4	7	34
60	60-39	36	360	105	11	13 1/32	6 15/64	8 19/32	45
62	62-44	48	440	80	11	8 15/16	6 3/8	8 13/16	35
	62-40	36	400	75	10	8 15/16	6 3/8	8 13/16	34
63	63-48	48	510	105	13	10 1/16	6 3/8	8 7/8	39
AUTOMOTIVE AND COMMERCIAL - 12 VOLT (SIDE TERMINAL)									
70	70-44	48	440	85	10	8 1/8	7	7 5/8	29
	70-40	36	400	70	9	8 1/8	7	7 5/8	28
71	71-45	60	455	85	10	8	7 1/4	7 13/16	31
	71-39	48	400	80	9	8	7 1/4	7 13/16	30
	71-33	36	340	70	8	8	7 1/4	7 13/16	28
73	73-48	48	480	95	11	9	7 1/8	8 3/8	39
	73-40	36	400	70	9	9	7 1/8	8 3/8	36
74	74-65	72	650	130	15	10 1/4	7	8 7/16	46
	74-50	60	540	125	12	10 1/4	7	8 7/16	45
	74-39	48	460	90	10	10 1/4	7	8 7/16	42
	74-29	36	380	70	8	10 1/4	7	8 7/16	38
78	78-55	60	550	110	12	10 1/4	7 1/8	7 7/16	38
SPECIAL APPLICATION									
1	8V1-11	3	Special 8 Volt		11	8 7/8	6 7/8	8 5/8	37
2	8V2-47	3	Special 8 Volt		15	10 3/8	6 13/16	8 15/16	43
	6TN	12	Special 12 Volt		23	11 1/8	10 1/2	9	71

BCI GROUP SIZE	BATTERY PART NUMBER	BATTERY WARRANTY MONTHS	ELECTRICAL VALUES		PLATES PER CELL	OVERALL DIMENSIONS			APPROX WEIGHT
			Cranking Amperes @ 0° F	Reserve Capacity		Length	Width	Height	
TRUCK, TRACTOR, BUS AND DIESEL - 12 VOLT									
30H	30H-58	36	600	170	17	13 1/2	6 3/4	9 1/8	60
	30H-46	24	460	145	13	13 1/2	6 3/4	9 1/8	59
4D	4D-80	24	850	312	23	20 3/4	8 3/4	9 5/8	116
	4D-70	18	700	290	21	20 3/4	8 3/4	9 5/8	103
8D	8D-98	24	1000	485	29	20 3/4	11	9 25/32	146
	8D-85	18	850	400	25	20 3/4	11	9 25/32	123
4B	8DB	24	980	490	29	22 7/8	11	9 7/8	148
3ET	3ET-44	24	450	148	13	19 5/16	4 5/16	9 13/16	57
4DLT	4DLT-76	24	754	290	25	19 7/8	8 1/8	7 7/8	94
16TF	16TF-64	24	640	230	15	16 17/32	7 7/32	11 13/64	98
17TF	17TF-49	24	410	125	13	17	6 7/8	8	58
31	31-70	42	725	170	17	13	6 13/16	9 13/32	59
	31-70S	42	725	170	17	13	6 13/16	9 13/32	59
	C31-63	36	650	160	15	13	6 13/16	9 13/32	56
	C31-63S	36	650	160	15	13	6 13/16	9 13/32	56
	29H-63	36	650	165	16	13	6 13/16	9 13/32	56
	31-63S	36	650	165	16	13	6 13/16	9 13/32	56
	29H-51	24	525	135	13	13	6 13/16	9 13/32	52
	31-51S	24	525	135	13	13	6 13/16	9 13/32	52
COMMERCIAL - 6 VOLT									
1	1-52	36	545	190	17	8 15/16	6 7/8	8 7/8	37
2	2-60	36	650	237	19	10 1/4	6 7/8	9 1/4	44
3	3-65	24	660	250	21	11 1/2	7	9 1/4	49
4	4-98	42	1000	420	33	12 5/8	7	9 5/16	64
	4-83	40	830	355	27	12 5/8	7	9 5/16	59
	4-78	36	780	255	23	12 5/8	7	9 5/16	57
	4-65	24	650	240	19	12 5/8	7	9 5/16	53
5D	5D-83	24	850	330	25	13 1/2	7 1/8	9 1/4	60
7D	7D-88	24	920	420	29	16 1/4	7 1/8	9 1/4	71
3EH	3EH-83	24	840	338	25	19 9/32	4 9/32	9 3/4	59
4EH	4EH-88	24	880	420	29	19 9/32	5	9 25/32	65
ANTIQUE AUTO TYPES - 6 & 12 VOLT									
1	1-43	18	430	140	13	8 15/16	6 7/8	8 25/32	32
2L	2L-40	18	400	135	13	10 1/4	7	7 13/32	38
2N	2N-43	12	435	140	15	10	5 1/2	9	34
2E	2E-49	24	490	160	15	19 3/8	4	8 7/8	28
19L	19L-40	24	420	120	13	8 7/32	6 7/8	7 13/32	28
3EE	3EE-33	24	375	100	11	19 9/32	4 9/32	9 3/4	49
53	53-29	18	325	76	9	13	4 23/32	8 5/32	35
MARINE SERVICE - 12 VOLT									
24	24M-50	40	540	125	12	10 1/4	6 25/32	9 7/8	46
	24M-41	30	460	90	10	10 1/4	6 25/32	9 7/8	42
GARDEN TRACTOR AND LIGHT UTILITY - 12 VOLT									
U1	U1-20L	12	235	40	9	7 3/4	5 1/8	7 5/32	21
	U1-20R	12	235	40	9	7 3/4	5 1/8	7 5/32	21
	U1-16L	12	185	30	7	7 3/4	5 1/8	7 3/8	19
U2	LM-24L	12	246	41	11	9 3/4	5 1/8	7 3/8	30
	LM-24R	12	246	41	11	9 3/4	5 1/8	7 3/8	30
	LM-5L	6	158	23	5	6 1/8	5	7 1/4	17
22NF	22NF-25	24	255	62	9	9 7/16	5 1/2	9 1/32	30
22F	22F-21	24	330	60	8	9 1/2	6 25/32	8 3/32	32

BCI GROUP SIZE	BATTERY PART NUMBER	BATTERY WARRANTY MONTHS	Voltage	75 Amp. Minutes @ 80° F	PLATES PER CELL	Length	Width	Height	APPROX WEIGHT
ELECTRIC POWER - DEEP CYCLE									
GC2	EP2-92	24	6	92	17	10 3/8	7 3/16	11 11/32	60
	EP2-106	36	6	107	19	10 3/8	7 3/16	11 11/32	66
U1	EP-U1	6	12	16	9	8 1/4	5 1/8	7 1/8	22
22NF	EP-22NF	6	12	22	11	9 7/16	5 15/32	8 13/16	32
24	EP-24	18	12	40	13	10 1/4	6 3/16	8 7/8	48
27	EP-27	24	12	46	15	12 1/16	6 3/16	8 7/8	55

DIGEST SHEET

TITLE OF ORDINANCE: SPECIAL

DEPARTMENT REQUESTING ORDINANCE: PURCHASING

SYNOPSIS OF ORDINANCE:

DA-03-29

An ordinance approving City Utilities purchase order #A-52957 with respect to the purchase of batteries for City vehicles through the City Utilities Garage per the specifications in reference #776.

EFFECT OF PASSAGE:

Batteries are necessary for the smooth operation of city vehicles and equipment. Batteries lose their functional ability with age or become damaged and have to be replaced.

EFFECT OF NON-PASSAGE:

Without replacement batteries, vehicles and equipment will cease to operate.

MONEY INVOLVED (Direct costs, Expenditures, Savings):

Anthony Motor Parts	#A-52957	\$15,000.00
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ASSIGNED TO COMMITTEE (President):

BILL NO. S-86-03-29

REPORT OF THE COMMITTEE ON CITY UTILITIES

WE, YOUR COMMITTEE ON CITY UTILITIES TO WHOM WAS

REFERRED AN (ORDINANCE) (~~RESOLUTION~~) approving City Utilities

Purchase Order #A-52957, by the City of Fort Wayne, Indiana, by

and through its Department of Purchasing, with Anthony Motor

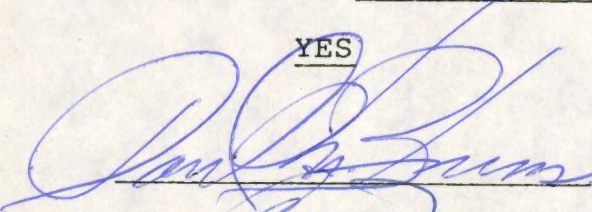
Parts Corporation, for the City Utilities Garage

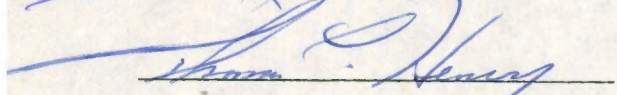
HAVE HAD SAID (ORDINANCE) (~~RESOLUTION~~) UNDER CONSIDERATION AND BEG
LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE)

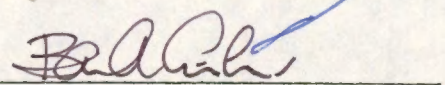
(~~RESOLUTION~~)

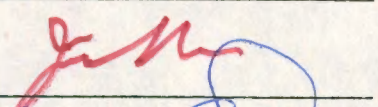
YES

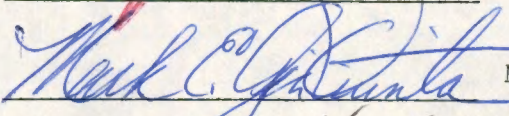
NO


PAUL M. BURNS
CHAIRMAN


THOMAS C. HENRY
VICE CHAIRMAN


BEN A. EISBART


JAMES S. STIER


MARK E. GiaQUINTA

CONCURRED IN 4-8-86

SANDRA E. KENNEDY
CITY CLERK